

TECHNOLOGY AND JOBS

TRENTO 2018
31 May - 3 June

preview
TURIN
11 May



Fear that technology destroys more jobs than it creates, or certainty of the opposite, the consequences and possible solutions; these will be the questions at the centre of 2018 edition of Trento Festival of Economics, dedicated to the theme of "Technology and Jobs". We are living in an era in which it is difficult to stop and think. That is why the appointment with the Festival is truly precious for those of us with decision-making responsibility, representing an extraordinary opportunity to learn more about a subject that is once again a perfect reflection of what the event is intended to be, namely a place where Trentino can consider the issues in the context of global dynamics.

This year the subject chosen by the academic committee is again particularly relevant, an issue that causes anxiety but at the same time excites great hopes. In my opinion, there are three horizons which we can throw light on thanks to the numerous experts coming from all over the world. Firstly, the need to offer an accurate and real snapshot of what technology can add or take away in terms of employment, Secondly, the opportunity to consider, also in philosophical terms, the meaning of the word "work", with the inseparable combination of right/duty, to understand whether technology is an instrument at the service of someone or something. Finally, it will also be a chance to look forward to the future, to discover whether technology is effectively capable of creating new job opportunities.

It is extremely significant that such a complex issue can be discussed here in Trento, as it also represents a truly decisive challenge for politics. As regards this, in my opinion the real test to be faced is bringing the digital revolution into schools. In Trentino we have passed a special plan aimed at developing and improving the digital skills of school pupils, in order to prepare them for the future. By now new technology is present in every aspect of daily life and hence it is also indispensable to bring it into schools, the place where individuals are educated. As well as developing skills, we must also stimulate cognitive abilities in our young people that allow them to use new technology in the right way, bearing in mind that it is a tool and not an end in itself. The challenge is to help them adopt such technology while maintaining control, making use of it to create awareness and a spirit of criticism.

Concreteness is one of the main characteristics of Trento Festival of Economics, which has always focused on the key questions of our time, considering social and economic problems that directly influence people's lives when choosing topics, at the same time seeking to identify possible solutions. Indeed, proposals that have subsequently become the object of international debate or that have taken concrete form in legislative measures have often arrived precisely from Trentino.

Ugo Rossi

President of the Autonomous Province of Trento



"The first truly intelligent machine will be humanity's last invention". The paradox of Arthur C. Clarke, co-writer of Stanley Kubrick's film 2001: A Space Odyssey, hums in the air in many discussions on the future of jobs, as if technology was destined not only to take roles and tasks away from us, but could ultimately arrive at the destruction of humanity. The millenarianism typical of science fiction thus spills over from literary or film fiction to become a part of everyday discussions, insinuating itself into comedians' shows and political programmes, offering suggestions to historians, economists and sociologists, who have already anticipated the end of work.

In actual fact, work has always evolved. The several agricultural revolutions that have followed one another from the Mesopotamian civilisation to the present day have reduced the need for labour, but at the same time they have made fields more fertile and thus capable of feeding a larger number of people. The industrial revolution in the 19th century replaced workers with machines, but also offered new stimulation for commerce, increasing employment in services. Clearly no progress has been painless. The underclass in the fetid alleys of London, populated by orphans in rags, beggars and scoundrels and so magnificently described in Dickens' novels, must act as a warning: the transitional phases are the most difficult, because more often than not, those who are expelled from an antiquated labour market are often unable (due to age, training or aptitude) to grasp the opportunities offered in new and unexplored sectors. In short, the transformation of work is not a revolving door: those who come out are not the same as those going in a moment later with other roles. Those leaving risk remaining without a job forever.

Today we are experiencing precisely this situation, poised between production as we have known it to date and automation, robots and cars that drive themselves. Never more than in this phase has it been necessary for the State, European Union and international law to concern themselves with regulating, easing and guiding change. Through taxation certainly, but above all with training and by starting up a collective process of learning, because there will be an increasing need for professionals capable of designing, constructing and managing machines. Indeed, the more the complexity of work tasks increases, the lower the risk of these being entrusted to intelligent machines.

As can be seen, the Festival of Economics will again deal with a subject that is crucial for both our present and our future. Once more, during the four days of debates, discussions and performances, we will be able to ask the most qualified experts in the field our questions, satisfy our curiosity and placate (or fuel?) our unease. This year we will emerge afresh from the event richer and more aware, better equipped to deal with the future that awaits us in our respective areas of jurisdiction.

Alessandro Andreatta

Mayor of Trento



Change has never seemed to be so rapid. Progress opens up new opportunities, improves living conditions and the wellbeing of society, so one could say that the earlier it happens the better.

Nobody regrets the era when the plough was pulled by oxen or when it was necessary to call the operator to make a telephone call. Scientific and technological progress has made the world a better place, reduced the cost of products and services, making them accessible to people who were previously denied them, increased the productivity of work and thus pay, allowing a major reduction in social differences. Scientific progress is at the service of social progress, and nobody, not even the Amish of Pennsylvania, who reject the more superficial aspects, considers denying the benefits.

However, while technological progress is probably desirable, the route for getting there is often full of difficulties, along with human and social costs. Today, as in the era of workers' movements against the mechanisation of production at the end of the 18th century, technology is making many jobs disappear and cancelling many professional skills. Many traditional services have been replaced by digitalisation and connectivity: we no longer have to go to the bank to pay bills, to school to register our children, or to the registry office to obtain a certificate, but we should not forget that this means that in banks, schools or municipalities there are people with professional skills that suddenly become unnecessary and who are at an age when it is difficult to start again. Progress is positive, but the benefits are not distributed equally and many people suffer. If the changes are slow, people have time to complete their professional life, leaving those arriving the chance to prepare suitably for the new world. However, when the transformation is rapid, they are affected right in the middle of their working life. These revolutions should go hand in hand with welfare systems, but the burden of benefits granted in the past has already made our models of social protection unsustainable, while the economic advantages of the technological revolution are not immediate.

This is a major challenge which universities are also call on to respond to, with the scientific and technological research that is a prerequisite for progress, and studies in the fields of social and human science in order to understand the economic, social, legal and ethical aspects. We must give future generations training that allows them to deal with the new world of employment and the changes they will encounter in the future. While the technological revolution has already changed many things in research, it will also do so in training, where the major immediate availability of knowledge has a strong impact on the way that people are trained.

Thus the Festival's theme for this year once again sees our University in the front line, in terms of commitment and interest. It is a major opportunity for the whole university community and the festival public to reflect on the changes in our society and to try and develop an opinion and form their own ideas, in the traditional spirit of the Festival of Economics. Three days dedicated to understanding, thinking, questioning and asking ourselves questions. I wish you all a successful festival.

Paolo Collini

Rector of the University of Trento

TECHNOLOGY AND JOBS

As a child, I tried in vain to take care of a dormouse, and I stroked a few chicks. But I cannot believe that any child would ever want a job involving picking up millions of chicks, a role currently much in demand. Sexers separate males and females at the rate of 20 fluffy yellow balls a minute, with a margin of error of 2-3%. It is a trade handed down from one generation to another, with its own register, and it is relatively well paid. Nevertheless, it is an alienating, repetitive and cruel job (the male chicks are usually killed). You can bet that in a few years the task will have been taken over by some form of industrial robot that is less costly and more rapid (we are talking about 60-70 chicks a minute), capable of reducing errors even further.

Technology can improve jobs and create leisure time. But its progress is accompanied by widespread consumption of tranquillisers. Every time there is an acceleration in technological progress, there is a revival of theories according to which machines will completely replace man. The end of work has been proclaimed hundreds of times, with a technological pessimism that goes beyond periods of crisis.

And yet economies all over the world continue to generate millions of jobs, and the employment rate (the ratio between employed people and the population of working age) increased practically everywhere during the 20th century. Although unemployment grows in periods of crisis and is unbearably high today in some countries, including our own, there is no trace of a long-term rise in unemployment.

Automation means the destruction of jobs, with machinery replacing the work carried out by man, but automation also generally brings with it an increase in productivity and in wages for jobs that machines are unable to replace. In its turn, this creation of value for work leads to the creation of jobs. Although the frontier of automation moves rapidly and artificial intelligence technology is developing quickly, we are still a long way from replacing human work with robots for tasks requiring flexibility and discretion, or which in more general terms do not lend themselves to codification.

Not only does technological progress have an effect on the labour market, the labour market itself influences technological trajectories. Technological progress is anything but uniform. Depending on the institutions of the labour market, demographics and the human capital of a country, technological development can be oriented in different directions. In the 19th century, when unskilled work was widely available, new technology made the work of many craftsmen obsolete, with the birth of factories giving jobs to relatively unqualified people. In contrast, at the beginning of the last century, new technology in the manufacturing sector often complemented the development of skilled jobs, and in the last 30 years we have seen many innovations that have replaced relatively unskilled workers with machinery, while instead promoting jobs for better educated people, who became increasingly numerous following the increase in schooling after the Second World War.

Technological innovations detrimental to relatively unskilled jobs can nevertheless create employment opportunities of other kinds for people with few educational qualifications. In the last few decades, we have seen a polarisation of employment in many countries, with the creation of jobs at the two extremes in terms of employment skills: there has been an increase above all in relatively unqualified and highly qualified roles, whereas there has been a fall in jobs requiring a medium level of skills. Technological progress could be responsible for this polarisation, because it has driven many educated people, especially women, to participate in the labour market, with unskilled workers taking on domestic duties.

Technological progress brings with it new distribution problems that our social protection systems would not appear to be capable of managing. They were introduced with the scope of containing the costs of cyclical fluctuation, but today they

seem unable to deal with long-term structural problems, such as those linked to the future of those who have suddenly seen their human capital depreciate radically. Today they can no longer cover new forms of employment, often disguised as freelance work, as in the case of much of the odd job economy using digital platforms. The impact of technological progress on the distribution of income will depend largely on how the ownership of the robots is distributed among the population. It is possible to exercise rights of ownership over them, as if they were modern day slaves, something which is fortunately no longer possible with human capital. Robots will be able to give more leisure time and wealth to those who have them, whereas they risk impoverishing those who can no longer find work because machinery has made their skills obsolete.

The past can offer crucially important lessons on the impact of new technology. For this reason the historic background will have a major place in this edition of the Festival of Economics, based above all on data provided by economic historians. At the same time we must be aware of the fact that past history is a very unreliable guide for what we can expect in the next few decades. If there is one thing that is not linear, it is precisely technological progress. More than in past editions, the Festival will welcome the inventiveness of technologists and economists. They cannot predict the future, but they can certainly imagine it with more concreteness and a greater ability to grasp the contradictions than many others.

Tito Boeri

Scientific Director of the Festival of the Economics

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The **main programme** of the Festival, highlighted in orange, was planned by the organisers together with the Scientific Director. The **joint programme**, shown in black, is made up of meetings organised by the representatives of publishing houses or other bodies, which take full responsibility for these events.

A simultaneous translation service is available for events accompanied by the symbol. Events accompanied by the symbol \mathcal{D} will be translated into Italian sign language (LIS).

The organising committee of Trento Festival of Economics reserves the right to make changes to the programme after the printing of this publication. Information regarding the programme, last minute changes, venue changes in the event of rain or for other reasons and events suspended or cancelled is constantly updated at the site www.festivaleconomi.it, or can be requested at the information points open on the days of the Festival, telephonically from the administration office (Tel. +39 0461 260511), or by sending an e-mail to the address info@festivaleconomia.it.

Entrance to the events is open and free of charge until full capacity is reached. No pre-booking. Entrance to events scheduled at the Teatro Sociale, Auditorium Santa Chiara and Cinema Modena is by voucher. These will be distributed at ticket offices from two hours before the beginning of each event.

Previous editions

2006 - WEALTH AND POVERTY

2007 - HUMAN CAPITAL, SOCIAL CAPITAL

2008 - THE MARKET AND DEMOCRACY

2009 - IDENTITY AND THE GLOBAL CRISIS

2010 - INFORMATION, CHOICES AND DEVELOPMENT

2011 - THE BORDERS OF ECONOMIC FREEDOM

2012 - LIFE CYCLES AND INTERGENERATIONAL RELATIONSHIPS

2013 - SOVEREIGNTY IN CONFLICT

2014 - RULING CLASSES, GROWTH AND THE COMMON GOOD

2015 - SOCIAL MOBILITY

2016 - WHERE GROWTH TAKES PLACE

2017 - UNEQUAL HEALTH

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TURIN

PREVIEW **11 May**

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DIALOGUES

15.30 Salone del Libro Sala Rossa

TITO BOERI, LUCA DE BIASE

DANGEROUS LIAISONS: TECHNOLOGY AND JOBS IN THE 21ST CENTURY

TURIN

introduced by **GIUSEPPE LATERZA**

A dialogue between the Scientific Director of the Festival of Economics and the editor of "Nova24", the weekly supplement of "Il Sole 24 Ore" dedicated to technological innovation, on the theme of the forthcoming Festival in Trento.

Thursday 31 May 2018

RAI - RADIO3 PRIMAPAGINA - PRESS REVIEW

presented by PIERANGELO GIOVANETTI organised by CRISTIANA CASTELLOTTI

from Rai Trento HQ

RAI - RADIO1 RADIO ANCH'IO

7.30-10.00

7.15

Piazza Duomo presented by GIORGIO ZANCHINI

Live from the Festival of Economics. Dialogue with listeners, investigations and special reports from Italy and around the world. One of the most consolidated and long-running programmes on Italian radio.

INAUGURATION

15.00 Palazzo della Provincia Sala Depero speakers: 😯



coordinated by **EVA GIOVANNINI**

VISIONS

17.00 **Teatro Sociale**

RICHARD FREEMAN



ROBOT MANIA

introduced by TITO BOERI

What will we do when robots will do the work and earn the income?

VISIONS

18.30 Castello del Buonconsiglio Sala Marangonerie

RICHARD BALDWIN

TELE-MIGRATION: DIGITECH, GLOBALISATION, AND THE FUTURE OF WORK

introduced by **EUGENIO OCCORSIO**

Globalisation has changed. The Steam Revolution sparked goods-crossing-borders globalisation (trade). The ICT Revolution sparked factories-crossing-borders globalisation (offshoring). This talk explores the causes and consequences of the future globalisation while weaving it into history with a broader perspective on globalisation.

VISIONS

19.00

Palazzo Geremia

RAFFAELLA SADUN

TECHNOLOGY AND MANAGEMENT

introduced by ROBERTO MANIA

New technologies may greatly increase firm level productivity and growth. Their impact, however, depends on critical managerial competencies, such as the ability to understand the complementary investments needed to make the best use of these technologies.

RAI - RADIO1

19.30-21.00 **Piazza Duomo**

ZAPPING

presented by GIANCARLO LOQUENZI

Live from the Festival of Economics. For more than twenty years the programme has presented the day's news, from Italian and international newscasts to web broadcasts. A multimedia space combining radio, TV and social media.

CINECONOMY

20.30

Cinema Modena

THE SOCIAL NETWORK

director: DAVID FINCHER

with JESSE EISENBERG, ANDREW GARFIELD, JUSTIN

TIMBERLAKE

A film depicting the story of Facebook, to appreciate how the technology of communication is changing and with it society and the world of employment. Today the company is worth more than the traditional industrial giants on the stock exchange. But what is the source of this value? The information that we ourselves provide. So what price do we pay for this infinite freedom to belong to a boundless

network?

organised by MARCO ONADO and ANDREA LANDI

SMART CITIES. COMPARISON OF EXPERIENCES

CONTEMPORARY WITNESSES

FRANCESCA BRIA, ROBERTA COCCO

21.00

introduced by **LUCA DE BIASE**

Teatro Sociale

How can new technology improve our lives in cities? And what management problems does this involve for local administrations? A comparison of experiences in Barcelona and Milan.

RAI - RADIO3

PRIMAPAGINA - PRESS REVIEW

7.15

presented by PIERANGELO GIOVANETTI organised by CRISTIANA CASTELLOTTI

from Rai Trento HO

RAI - RADIO1

RADIO ANCH'IO

presented by GIORGIO ZANCHINI

7.30-10.00

Piazza Duomo

Live from the Festival of Economics. Dialogue with listeners, investigations and special reports from Italy and around the world. One of the most consolidated and long-running programmes on Italian radio.

KEYWORDS

MATTEO BUGAMELLI

10.00
Dipartimento
di Economia
e Management
Sala Conferenze

PRODUCTIVITY

introduced by CHIARA TOMASI

We often hear that the growth of the Italian economy is hindered by modest productivity dynamics in comparison with the international situation. But what is productivity? What are its main determinants? How much do these have to do with the technological and employment choices of companies and how much with the institutional and regulatory context? Answering these questions and identifying priorities for economic policy is crucial for the wellbeing of citizens and the competitiveness of businesses.

FUTURE JOBS

ANDREA DE BERTOLINI, GIOVANNI LEGNINI

10.00 Palazzo della Provincia Sala Depero MAGISTRATES, LAWYERS AND THE JUSTICE SYSTEM introduced by GIOVANNI NEGRI

The way in which the new labour market and the rights of people are conditioned by technology has significant effects both on legal professions and the overall organisation of justice.

MEETINGS WITH AUTHORS

RICHARD BALDWIN

10.00

Palazzo Geremia

LA GRANDE CONVERGENZA

organised by Il Mulino

discussed with PAOLO GUERRIERI, ALESSANDRO MERLI

coordinated by TONIA MASTROBUONI

RAI - RADIO3

10.00 Piazza Duomo

TUTTA LA CITTÀ NE PARLA

presented by PIETRO DEL SOLDÀ organised by CRISTIANA CASTELLOTTI with ROSA POLACCO

Guests, topics, books and testimony: the Festival appointments recounted live every day for the public in the Piazza and Radio 3 listeners.

INTERSECTIONS

10.30

Sala Filarmonica

VALERIO DE STEFANO

NEW JOBS, NEW RULES?

introduced by **GIORGIO ZANCHINI**

Does technological change require new regulations for employment? What impact does digital technology have on workers' contractual conditions? The subject of the Festival in the context of evolution of the law.

DISCUSSIONS

10.30 Fondazione Bruno Kessler Sala Conferenze

HOW JOBS ARE CHANGING IN THE HEALTH FIELD IN \mathscr{T} THE DIGITAL ERA

organised by the Autonomous Province of Trento's Department of Health and Social Solidarity

coordinated by CLAUDIO DARIO

speakers: STEFANO FORTI, DANIELA GALEONE, LUCA ZENI

New technology has opened up new employment and communication horizons in the field of healthcare and the promotion of health, changing the jobs and organisation of healthcare workers and the relationship with citizens. Efficacy and safety? Future scenarios and new jobs?

DIALOGUES

11.00 Biblioteca comunale

ALBERTO CRESPI, MARCO ONADO

TAKE THE MONEY AND RUN. FINANCE IN FILM

From Bonnie and Clyde and Trading Places to Dr Strangelove and Take the Money and Run, film represents an extraordinary treasure chest of ideas and considerations about economics.

11.00 Palazzo Bassetti Sede Intesa Sanpaolo

LOCAL AREAS AND JOBS, TOURISM AND TECHNOLOGY

organised by Intesa Sanpaolo

speakers: GIANNI BORT, LORENZO DELLADIO, ELIANO LODESANI, MATTEO LUNELLI, ANNA MONTICELLI, RENZO SIMONATO

Reflection on successful business models to reconcile the added value of technology in employment, safeguarding and promoting human capital and the local area.

DISCUSSIONS

11.00 Facoltà di Giurisprudenza Aula Magna

ARTIFICIAL INTELLIGENCE (AI), JOBS AND RESPONSIBILITY

organised by Exprivia | Italtel

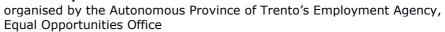
coordinated by PINO BRUNO speakers: FEDERICO BUTERA, GIOVANNI PASCUZZI, GIOVANNI SEBASTIANO

Does artificial intelligence take jobs away from people? Will software be capable of thinking and acting consciously like men? Will it take responsibility at work and in society? And who will take responsibility for its mistakes, also in the light of recent events in the news?

DISCUSSIONS

11.00 Castello del Buonconsiglio Sala Marangonerie

GENDER, SCIENCE AND TECHNOLOGY \mathscr{T}



coordinated by BARBARA POGGIO speakers: CHIARA BURBERI, GIANNA MARTINENGO, FIORELLA OPERTO, MONICA PARRELLA

The gender gap in the scientific and technological sector: presentation of data and experience at national level, to overcome gender stereotypes in STEM. Initiatives targeted at encouraging girls to approach coding and participate in ICT and robotics.

11.00 Fondazione Franco Demarchi Aula Magna

TECHNOLOGY AND INCLUSION

organised by the Fondazione Franco Demarchi

coordinated by VALENTINA CHIZZOLA

speakers: LUCA COMPER, VINCENZO D'ANDREA,

GUALTIERO FANTONI

Presentation of different sociological, technological and organisational perspectives regarding the subject of inclusion within organisations undergoing transformation. What are the shadowy areas in the fourth industrial revolution, and more generally, in technological innovation?

FORUM

12.00 Palazzo della Provincia Sala Depero

HOW TO SUPPORT INCOME WHILE CHANGING JOBS

organised by lavoce.info

with MAURIZIO DEL CONTE, DONATO IACOVONE, NICOLETTA LUPPI

introduced by **FRANCESCO DAVERI** coordinated by **LUCA DE BIASE**

When technological innovation accelerates, workers aged 50+, skilled and in their prime, risk exiting from the labour market. The urgent challenge for national and local government and for insurance bodies is how to help them remain active without discouraging their efforts to gain new skills.

MEETINGS WITH AUTHORS

12.00
Dipartimento
di Lettere e Filosofia
Auditorium

CARLO COTTARELLI

I SETTE PECCATI CAPITALI DELL'ECONOMIA ITALIANA

organised by Feltrinelli

discussed with ANDREA BOITANI, GIANFRANCO VIESTI coordinated by TONIA MASTROBUONI

MEETINGS WITH AUTHORS

14.30 Palazzo Geremia

JOEL MOKYR 🚱



organised by Il Mulino

discussed with MAGDA BIANCO, GIANNI TONIOLO coordinated by TONIA MASTROBUONI

14.30
Dipartimento
di Lettere e Filosofia
Auditorium

WOMEN WHO DESIGN ROBOTS AND PLAN THE ECONOMY

organised by Fondazione Bracco

speakers: DIANA BRACCO, BARBARA CAPUTO, ANTONIA CAPPARELLI, ELSA FORNERO

There is almost always a male point of view explaining and interpreting the world. And yet there are many women experts who can look to the future, rejuvenating visions and language with farsightedness. The objective of the 100esperte.it project is to ensure female participation in line with male participation.

DISCUSSIONS

14.30 Fondazione Bruno Kessler Sala Conferenze

THE 'ALLEANZA PER IL LAVORO DEL FUTURO' INITIATIVE

organised by EY

coordinated by LUCA DE BIASE speakers: ALESSANDRO CATTANI, SANDRO DE POLI, DONATO IACOVONE, ELISABETTA RIPA

The 'Alleanza per il Lavoro del Futuro' (Alliance for the Jobs of the Future): the reasons behind the initiative, the needs giving rise to its development and the intention to reorient all the stakeholders to change the employment scenario. Presentation of thematic working groups on data and scenarios, systemic risks, skills, match-making and local areas.

DISCUSSIONS

14.30 Facoltà di Giurisprudenza Aula Magna

TECHNOLOGICAL TRANSFER AND BUSINESS DEVELOPMENT

organised by HIT - Hub Innovazione Trentino

coordinated by ANNA GERVASONI speakers: SERGIO ANZELINI, PAOLO COLLINI, FRANCESCO PROFUMO, ANDREA SEGRÈ

Advanced technological transfer lies at the heart of business system development: research is directed at extensive implementation in companies, creating opportunities for spin-offs and technological start-up companies. A report on cases and examples dedicated to this complex activity, designed to create jobs and new patterns of employment.

VISIONS

15.00 Palazzo della Provincia Sala Depero

BARRY EICHENGREEN



THE POPULIST TEMPTATION

introduced by STEFANO FELTRI

History demonstrates that populism is fuelled not only by the desire to defend national identity but also from economical insecurity. This means that it can be fought through redistribution and social policies which compensate for the negative effects of new technologies on employment.

INTERSECTIONS

15.00 **Teatro Sociale**

ROBERTO CINGOLANI, ICUB

INTERVIEW WITH A ROBOT

coordinated by MASSIMO MAZZALAI

What do robots know how to do and what can they do? In what ways can they replace and complement human work? Discussed with the Scientific Director of the Istituto Italiano di Tecnologia and a robot.

IN HISTORY

15.00 Castello del Buonconsiglio Sala Marangonerie

MARA SQUICCIARINI

ÉLITE AND TECHNOLOGICAL PROGRESS DURING THE INDUSTRIAL REVOLUTION

introduced by **ALMA GRANDIN**

This lecture will analyse the role of human capital for technological progress and economic development. Focusing on a key phase of modern economic growth, the Industrial Revolution in France, it will distinguish between the role of elite and average human capital for innovation and adoption of new technologies.

DISCUSSIONS

15.00 Dipartimento di Economia e Management Sala Conferenze

MOBILITY IN THE FUTURE: PEOPLE AND GOODS MOVED BY TECHNOLOGY

organised by Autostrada del Brennero

coordinated by LUCA BARBIERI

speakers: MICHELE BAULI, CARLO COSTA, LUIGI OLIVIERI,

FABIO ORLANDI

Technological trials of innovations capable of offering more sustainable, autonomous, safe and efficient mobility services are increasingly more concrete. Vehicles will interact with each other and with motorway infrastructures, while intermodal transport will be increasingly widespread and perfected. A debate on the current and future use of technology in the field of mobility.

15.00 Facoltà di Giurisprudenza Aula B

A BATTLE OF WORDS. THE GAME OF CROSS-EXAMINATION

organised by the Municipality of Trento – Culture, Tourism and Youth Policy Department, Iprase, the Law Faculty in Trento and the Municipality of Rovereto

coordinated by CHIARA TAMANINI speakers: CRISTINA AZZOLINI, MARIA CHIARA FRANZOIA, PAOLO SOMMAGGIO and pupils from two secondary school classes

What are the predominant feelings in the face of the increasingly wide use of robotics and artificial intelligence? This is the final subject in the debating contest, which sees numerous pupils from secondary schools in Trentino challenge each other in a battle of words. The project has the objective of educating young people to participate in democratic discussion.

DIALOGUES

15.30 Sala Filarmonica

ROBERTO CASO, ANTONELLO SORO

THE NEW GEOGRAPHY OF POWER IN DIGITAL SOCIETY coordinated by PIERANGELO GIOVANETTI

Digital technology has radically changed our freedom and the social structure itself. Big tech companies by now have a power equal – if not superior – to that of states, capable of orienting people's choices, as consumers and even as voters. Data protection is the tool that more than any other will make it possible to manage this change to promote rights and freedom, focusing on people first and foremost.

DISCUSSIONS

16.00 Palazzo Bassetti Sede Intesa Sanpaolo

JOBS AND TECHNOLOGY IN THE PRODUCTIVITY OF ITALIAN BUSINESSES

organised by GEI Gruppo Economisti di Impresa

speakers: MATTEO BUGAMELLI, INNOCENZO CIPOLLETTA, MASSIMO DEANDREIS, GREGORIO DE FELICE

A debate on the causes of low productivity in Italian industry and how this negative element is distributed in a heterogeneous manner on the basis of the size of the company, its international openness and the level of innovation. Gaps, dynamics and prospects.

RAI - RADIO3

16.00

Piazza Duomo

TUTTA LA CITTÀ NE PARLA

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Guests, topics, books and testimony: the Festival appointments recounted live every day for the public in the Piazza and Radio 3 listeners.

INTERSECTIONS

16.30 **Facoltà** di Giurisprudenza Aula Magna

EVGENY MOROZOV



THE GEOPOLITICS (AND GEOECONOMICS) OF **ARTIFICIAL INTELLIGENCE**

introduced by **SIMONE PIERANNI**

A global war between American and Chinese companies to exploit the immense potential of new technology to control our lives is underway. Can Europe still do something about it?

FORUM

17.00 Palazzo della Provincia Sala Depero

TECHNOLOGICAL INNOVATION AND SOCIAL INEQUALITY: WHAT IS THE RELATIONSHIP IN THE 21ST CENTURY?

with ANNA GERVASONI, ALESSANDRO OLIVI, IDA **REGALIA, STEFANO SACCHI** introduced by PAOLO BARBIERI

The forum will discuss technological innovation, in particular in the service sector, inequality, the problems of individual and collective rights, and which policy measures can be considered to limit inequality resulting from the introduction of new technology in the world of employment.

MEETINGS WITH AUTHORS

17.00

Biblioteca comunale

PAOLO BIONDANI

IL CAVALIERE NERO

organised by Chiarelettere

discussed with PETER GOMEZ, CRISTIANO VEZZONI coordinated by TONIA MASTROBUONI

DISCUSSIONS

17.00 **Fondazione Bruno Kessler** Sala Conferenze

PUBLIC-PRIVATE SECTOR PARTNERSHIPS FOR SUSTAINABLE DEVELOPMENT

organised by Mastercard

speakers: GAETANO CARBONI, MARCO SIRACUSANO, SANDRA WESTLAKE

Achieving the 17 UN objectives for sustainable economic and social development by 2030 demands extensive collaboration between the public and private sector. Mastercard, Poste Italiane and the World Food Programme have joined forces to offer school meals to millions of children around the world.

DISCUSSIONS

17.00 Castello del Buonconsiglio Sala Marangonerie

SMART & GREEN: THE AGRICULTURE OF THE FUTURE



organised by the Fondazione Edmund Mach

coordinated by ANDREA SEGRÈ speakers: CASSIANO LUMINATI, DANIEL ZIMMER, FABIO ZOTTELE

What is (climate) smart agriculture and what contribution can technology make to the farmers of today and tomorrow? A closer look at the prospects for local development and training programmes supporting the rural economy.

DISCUSSIONS

17.00 **MUSE**

MOBILITY TRENDS AND ELECTRIC CARS

organised by LeasePlan Italia

coordinated by BARBARA PEDROTTI speakers: ANDREA BOITANI, MAURO CASOTTO, LUCA FILIPPI, ALFONSO MARTINEZ, SIMONE MORO

An opportunity to analyse macro trends in mobility in metropolitan and urban centres. Attention will be paid to the varied potential for growth of different fuel systems, with a particular focus on electric vehicles.

DISCUSSIONS

17.15 Palazzo Calepini Sala Fondazione Caritro

WHAT JOBS FOR THE FUTURE?

organised by Enactus Italia onlus

coordinated by ALESSANDRO GAROFALO speakers: ANNA FISCALE, FILIPPO MANFREDI, PINO MERCURI, MARINA SALAMON

How to transform the entrepreneurial ideas of future generations into job opportunities, starting from new inclusive technology, in order to achieve the 17 UN objectives for sustainable development.

SPOTLIGHT

17.30

Teatro Sociale

ELSA FORNERO, ANDREA ROVENTINI

SHOULD THE FORNERO REFORM BE ABOLISHED?

coordinated by **DAVIDE COLOMBO**

During the electoral campaign the parties vied with each other to propose the abolition of the Fornero Law. What are the real prospects? How much would it cost?

IN HISTORY

18.00 Sala Filarmonica

GIANNI TONIOLO \mathscr{J}



TECHNOLOGY AND FEMALE EMANCIPATION

introduced by **ROBERTA CARLINI**

In the middle of the 1960s the widespread diffusion of "white" electrical appliances allowed the wives of workers to leave the home and go to work. A story that has its roots in the past and a few lessons for the present day. The starting point is a study by Fedra Pizzato and Eliana Viviano.

VISIONS

18.00 Dipartimento di Economia e Management Sala Conferenze

ORIANA BANDIERA

JOBS, SKILLS AND POVERTY

introduced by PIETRO VERONESE

Labour is the main endowment of the poor and yet millions of poor people in low income countries employ their labour in insecure, irregular and low paid jobs - not dissimilar from zero hour contacts in richer countries. Are the poor stuck in a trap or do they have the same opportunities as their more fortunate counterparts but lack the skills and motivation to take advantage of them? This lecture reviews recent evidence that helps us tell the two apart.

VISIONS

18.30 Palazzo Geremia

STEPHEN MACHIN



NEW WORK ARRANGEMENTS IN TODAY'S LABOUR MARKET

introduced by **DINO PESOLE**

Today's labour markets feature a range of new and different working patterns from the past, with automation, digitization and non-traditional work hours featuring prominently. Are these advantageous or disadvantageous to workers, firms and the overall economy? This question will be explored in the light of new data on modern forms of self-employment, the gig economy and new working arrangements that have been changing the nature of work in the UK labour market.

FUTURE JOBS

ANDREA GAVOSTO, MICHELE PELLIZZARI

18.30 **Facoltà** di Giurisprudenza Aula Magna

DIGITAL EDUCATION

coordinated by GINO RONCAGLIA

Multimedia courses, electronic text books etc. When training skills (in schools and universities) encounter new technology.

18.30 Ex Convento Agostiniani OECD offices

TECHNOLOGY AND WORK: THE RISE OF CULTURAL AND CREATIVE INDUSTRIES

organised by the Trento OECD centre for local development and TSM – Trentino School of Management $\,$

introduced by JOAQUIM OLIVEIRA MARTINS speaker: PIER LUIGI SACCO

Cultural and creative industries (CCIs) are a macro-sector that is attracting increasing attention due to both its dimension and its spillover and crossover relations with other key production sectors. This lecture will explore the main features of CCIs from the point of view of innovation potential, strategic complementarities and productivity issues

VISIONS

19.00 Palazzo della Provincia Sala Depero

ALAN KRUEGER



TECHNOLOGY AND THE FUTURE OF WORK

introduced by MARCO ZATTERIN

In many respects, the future of work is already here. This lecture will discuss how technological change is affecting the nature of work, and how artificial intelligence and other developments are likely to change the nature of jobs and work in the future.

DIALOGUES

19.00 Dipartimento di Lettere e Filosofia Auditorium

MARCO BENTIVOGLI, SUSANNA CAMUSSO, CLAUDIO LUCIFORA

TRADE UNIONS IN THE FACE OF THE CHALLENGE OF AUTOMATION

coordinated by **NUNZIA PENELOPE**

How can negotiation take place in the era of robots? The changing nature of work due to the influence of technology also forces trade unions to reconsider their "toolbox", adapting their strategies to keep pace with the new requirements created by innovation.

DIALOGUES

19.00 Castello del Buonconsiglio Sala Marangonerie



FAIRNESS POLICY

coordinated by **ALBERTO ORIOLI**

Technology represents an extraordinary opportunity to satisfy the needs of an ever increasing number of individuals and to encourage a qualitative improvement in terms of lifestyle. However, it also leads to new problems, because it can multiply inequality and replace jobs, weakening intermediate associations and social structures, undermining privacy and generating insecurity, if not suitably regulated. What criteria should inspire fairness policy in the digital era?

RAI - RADIO1 19.30-21.00

Piazza Duomo

ZAPPING

presented by GIANCARLO LOQUENZI

Live from the Festival of Economics. For more than twenty years the programme has presented the day's news, from Italian and international newscasts to web broadcasts. A multimedia space combining radio, TV and social media.

CINECONOMY

20.30 Cinema Modena

HER

directed by SPIKE JONZE with JOAQUIN PHOENIX, AMY ADAMS, ROONEY MARA

Artificial intelligence raises disturbing questions not just in economic but also in personal relations. Can a human being fall in love with an operating system? And can a computer experience real feelings? An ironic and biting film exploring the existential problems of a future by now underway.

organised by MARCO ONADO and ANDREA LANDI

CONTEMPORARY WITNESSES

21.00

Teatro Sociale

FRANSISCUS CORNELIS GERARDUS TIMMERMANS



EUROPE AT A CROSSROADS

interviewed by TONIA MASTROBUONI, VALENTINA ROMEI

Our continent finds itself faced with fundamental choices regarding the future of its economic and political integration: immigration, welfare policy, civil rights, the relationship between Brussels and national governments. The vision and experience of the first Vice-President of the European Commission.

JAZZECONOMY

21.30

Piazza Duomo

THE SCOOP JAZZ BAND

guitar: DINO PESOLE

keyboard: ANTONIO TROISE percussion: STEFANO SOFI saxophone: ANTONIO LABBATE

voice: DONATELLA CAMBULI, MASSIMO LEONI

voice and trumpet: STEFANO ABITANTE

bass guitar: ANTONELLO MANGO

drums: GUIDO CASCONE

saxophone: MICHELANGELO MARINELLI

Words and jazz music under the stars at Trento Festival of Economics. Journalists and musicians together for a repertoire with a range of successes: jazz classics and standards, blues and swing, with original reinterpretations of the rhythms and melodies.

Saturday 2 June 2018

RAI - RADIO3

PRIMAPAGINA - PRESS REVIEW

7.15

presented by PIERANGELO GIOVANETTI organised by CRISTIANA CASTELLOTTI

from Rai Trento HQ

KEYWORDS

AVI GOLDFARB

10.00 Facoltà di Giurisprudenza Aula Magna

ARTIFICIAL INTELLIGENCE

introduced by MASSIMO ZANCANARO

Advances in artificial intelligence can be seen as a drop in the cost of prediction. As the cost of prediction falls, simple economics says that we will engage in more prediction and that the complements to prediction become more valuable. This presentation uncovers the implications of cheap prediction for organizations and for society.

VISIONS

10.00

Palazzo Geremia

ADAIR TURNER

INET LECTURE - CAPITALISM IN AN AGE OF ROBOTS

introduced by GIUSEPPE LATERZA

The impact of automation and artificial intelligence on both the developed and developing economies will be even more profound than most people realise, and will explore the implications, not only for public policy, but for the discipline of economics and the very meaning of an "economy".

MEETINGS WITH AUTHORS 10.00

Biblioteca comunale

MASSIMO GAGGI

HOMO PREMIUM

organised by Editori Laterza

discussed with SERENA DANNA, LUCA DE BIASE coordinated by TONIA MASTROBUONI

RAI - RADIO3

10.15

Piazza Duomo

TUTTA LA CITTÀ NE PARLA

presented by PIETRO DEL SOLDÀ organised by CRISTIANA CASTELLOTTI with ROSA POLACCO

Guests, topics, books and testimony: the Festival appointments recounted live every day for the public in the Piazza and Radio 3 listeners.

VISIONS

11.00
Castello
del Buonconsiglio
Sala Marangonerie

PHILIP McCANN

organised by OECD

IMPACT OF NEW TECHNOLOGIES ON JOBS AND ITS EFFECT ON LOCAL ECONOMIES

introduced by JOAQUIM OLIVEIRA MARTINS

The potential impacts of changing technologies, automation and big data on the productivity performance of cities regions and rural localities will be examined. Issues relating to firm and organisational structures, changing demands for skills profiles, and the resulting institutional and governance challenges will all be discussed.

INTERSECTIONS

11.00

Sala Filarmonica

REMO BODEI

WHEN REASON IS THE REALM OF MACHINES

introduced by **ELIANA DI CARO**

What happens to individual conscience when essential human faculties such as intelligence and decision-making are transferred to machines?

DISCUSSIONS

11.00

Palazzo Calepini Sala Fondazione Caritro

CHALLENGES AND OPPORTUNITIES WITH THE NEW WAVE OF TECHNOLOGY

organised by the Fondazione Luigi Negrelli, Order of Engineers in the Province of Trento

coordinated by CINZIA PELLEGRINO speakers: ANTONIO ARMANI, SILVIA CANDIANI, GIANNI MASSA

How should companies evolve at a time of rapid technological innovation and consequential changes in the market? New competition can make even the most lasting and stable players vulnerable if they are not capable of questioning their strategy and anticipating future trends.

DISCUSSIONS

11.00

GOING DIGITAL: EMPLOYMENT

TECHNOLOGY AND

FEMALE

Dipartimento di Economia e Management Sala Conferenze organised by Tortuga

coordinated by MATTEO SARTORI

speakers: LUCY LOMBARDI, MARIACRISTINA ROSSI,

STEFANO SCARPETTA

According to the OECD, women workers risk being penalised in various ways by technological progress. A reflection on female participation in STEM and technical-scientific sectors, on inequality, reconciling home and work commitments and non-standard employment.

DISCUSSIONS

11.00 **Fondazione Bruno Kessler Sala Conferenze**

FACTORIES "WITHOUT EFFORT": EMPLOYMENT 4.0

organised by the Fondazione Ergo - MTM Italia

coordinated by SANDRO TRENTO

speakers: MARCO BENTIVOGLI, BARTOLOMEO CALLARI,

GABRIELE CARAGNANO

Is it possible to increase industrial productivity while ensuring improved quality of jobs and reducing effort to zero? Yes, it is. In Italy it is necessary to disseminate a culture and organisational model integrating technology, processes, organisation and the active participation of workers.

VISIONS

12.00 **Facoltà** di Giurisprudenza Aula Magna

DAVID DORN



WILL ROBOTS TAKE AWAY ALL OUR JOBS?

introduced by ANDREA FRACASSO

Recent advances in artificial intelligence and robot technology have renewed fears that most jobs will soon be lost to automation. This presentation reviews how technology has changed work over the centuries, and how computers and robots are changing the work we do today.

INTERSECTIONS

12.00

Palazzo Geremia

IMRAN RASUL



JUSTICE AND ETHNIC DISCRIMINATION

introduced by FRANCESCA PACI

As 9-11 increased animosity towards Muslims, sentence and pre-sentence outcomes in the Federal Criminal Justice System in the US for Hispanic defendants significantly worsened. Outcomes for Black defendants were unchanged. The results show that animosity towards Muslims post 9-11 had spillover effects onto Hispanics, in the high stakes and professional environment of the Federal Criminal Justice System.

FORUM

12.00 Palazzo della Provincia Sala Depero

GIG ECONOMY: JOBS OR SHORT-TERM CONTRACTS?

organised by lavoce.info

with GIANLUCA COCCO, MARTA FANA, PAOLO NATICCHIONI, MATTEO SARZANA introduced by PIETRO ICHINO coordinated by LUCA DE BIASE

An increasing number of jobs tend to be carried out by freelancers, polarising to include jobs with the highest added value and those with the lowest pay. Platforms organising the relations between supply and demand are growing in financial terms by exploiting the network effect, focusing on technical efficiency and refusing to hire operators. How will employment relations evolve in this context? Will the contracts for these short-term jobs continue to be very different from those with greater guarantees?

VISIONS

14.30 Castello del Buonconsiglio Sala Marangonerie

DANIEL SUSSKIND



TECHNOLOGICAL UNEMPLOYMENT

introduced by **REGINA KRIEGER**

In contrast with previous technology, the latest generation of machines equipped with artificial intelligence replaces many creative and manual jobs without creating new ones. Thus the future will probably see less work and more unemployment: how should all the economic and social implications be managed?

DIALOGUES

15.00 Facoltà di Giurisprudenza Aula Magna

TOMMASO DI TANNO, GIAMPAOLO GALLI

WEB TAX: OK, BUT HOW?

coordinated by MASSIMO SIDERI

Having abandoned doubts about the advisability of finding fiscal instruments to avoid separation between multinational companies and taxes, it is not however easy to find a solution. The algorithm for new taxation of innovation must take account of Rousseau's social contract, but without hindering the changes that are needed. Where is it possible to find variables that are not transformed into alibis?

EconoMia

15.00
Dipartimento
di Economia
e Management
Sala Conferenze

COMPETITION AWARD CEREMONY

The EconoMia competition on the theme of this edition of the Festival of Economics rewards the 20 best students from Italian secondary schools. The prize-winning pupils will follow the Festival close at hand, thus learning more about a major issue in contemporary economics.

DIALOGUES

15.00 Palazzo della Provincia Sala Depero

ALEKSI JÄNTTI, STEFANO SCARPETTA



organised by OECD

TECHNOLOGY AND JOBS, A PERSPECTIVE ACROSS LEVELS OF GOVERNMENT

introduced by MARI KIVINIEMI coordinated by JOAQUIM OLIVEISTEFAA MARTINS

How will the work in the OECD countries change and what policies are putting in place the cities that want to be protagonists of their future? How are cities like Tampere (the "NOKIA city") and Gothenburg, which are facing major labour and technological adjustments, build on opportunities created by digitalisation and strive to be an example in smart technological development? How can better coordination of policies across different levels of government being achieved in order to successfully address these dynamics?

MEETINGS WITH AUTHORS

15.00 **Biblioteca comunale**

LUCA DE BIASE

IL LAVORO DEL FUTURO

organised by Codice

discussed with SUSANNA CAMUSSO, DOMENICO DE MASI coordinated by TONIA MASTROBUONI

DISCUSSIONS

15.00
Dipartimento
di Lettere e Filosofia
Auditorium

EDUCATION IN THE ERA OF ARTIFICIAL INTELLIGENCE: TECHNOLOGY AND A RENEWED FOCUS ON INDIVIDUALS

organised by the Autonomous Province of Trento's Department of Knowledge, in collaboration with ALLAVORO!

coordinated by SIMONE SPETIA

speakers: MARCO BENTIVOGLI, MAURIZIO DEL CONTE, FRANCESCO LUCCISANO, DARIO ODIFREDDI, UGO ROSSI

Work is changing its nature, geography and values. Education is a fundamental tool for adapting to the changes. Educational systems will be forced to make important choices: is it better to boost technical and scientific skills or focus on human science and soft skills? And which new players should be involved in the run-up?

15.00 Fondazione Bruno Kessler Sala Conferenze

LIFT-OFF, THE SPACE ECONOMY ROCKET IS LAUNCHED



organised by ASI - Agenzia Spaziale Italiana

speakers: ROBERTO BATTISTON, MASSIMO COMPARINO, DAN HART, JEFFREY MANBERS

The new space economy is revolutionising the space sector. Entrepreneurs from the digital economy and various other sectors have brought new capital, ideas and services. With the applications deriving from observation of the Earth, geolocation and space tourism, space is a formidable opportunity for economic and social development.

SPOTLIGHT

15.30 **Sala Filarmonica**

ROBERTO NICASTRO, MARCO ONADO

THE BANKING CRISIS IN ITALY: CAUSES, RESCUE PLANS AND COSTS

coordinated by NICOLA SALDUTTI

The banking crisis in Italy – perhaps less serious than in the rest of Europe – involved the third largest bank in the country and a group of banks operating in the heart of the Italian production area (Marche, Emilia and Veneto). Analysis of the underlying causes of this crisis highlights the weaknesses of civil society and the ruling class, not just in the banking sector.

VISIONS

16.00 Palazzo Geremia

SHANE GREENSTEIN •

TECHNOLOGY MARKETS FOR INNOVATORS WHO ARE OUTSIDERS

coordinated by **GIULIANO GIUBILEI**

This talk reviews and synthesizes many well-documented episodes of successful outsiders, and how their innovative commercial activity generated responses from established firms in computing markets and the commercial Internet. Analysis reveals that outsiders and insiders face asymmetric economic incentives to innovate in the service of differentiated competitive entry. Importantly, more nurturing market environments at early moments play an important role.

DIALOGUES

16.00 MUSE

ENRICO GIOVANNINI, MICHAEL JACOBS



INNOVATION AND SUSTAINABLE DEVELOPMENT

organised by Muse and Asvis - Alleanza per lo Sviluppo Sostenibile

coordinated by PAOLA PICA

What contribution can technological innovation make to sustainable development? And what kind of sustainabilityenvironmental but also social - do we need to reduce inequality and poverty?

RAI - RADIO3

16.00 Piazza Duomo

TUTTA LA CITTÀ NE PARLA

presented by PIETRO DEL SOLDA organised by CRISTIANA CASTELLOTTI with ROSA POLACCO

books and testimony: topics, the Festival appointments recounted live every day for the public in the Piazza and Radio 3 listeners.

INTERSECTIONS

17.00 Facoltà di Giurisprudenza Aula Magna

RICCARDO STAGLIANÒ

THE HUMAN FACE. BEHIND THE RHETORIC OF THE SHARING ECONOMY

introduced by **PAOLO MORANDO**

They tell us that it will help us to get to the end of the month, but the question to ask is: at a certain point, why did we need to top up our income? The economy of odd jobs is the wrong answer, a shortcut that offers a quick fix for the daily desperation of some, leading to a poorer society for everyone tomorrow (due to the colossal tax evasion on which it is based). A short journey among the key players.

INTERSECTIONS

17.00

Teatro Sociale

FEDERICO RAMPINI

FROM SILICON VALLEY TO THE RUST BELT. **AN AMERICAN JOURNEY**

introduced by **JENNIFER CLARK**

9,000 kilometres into the heart of America that voted for Trump, the key players in the wave of populism that astounded the world take the floor. It is a "return home" to the Californian west coast, in the midst of the webmasters who betrayed the digital utopia.

DIALOGUES

17.00 Castello del Buonconsiglio Sala Marangonerie

NELSON BARBOSA



INET LECTURE - POPULISM AND WAGE REPRESSION introduced by **OLIVIER TOSSERI**

Inequality has increased in recent years, giving rise to populist proposals both from the right and the left in western democracies. Part of the problem has to do with the shift in macroeconomic policy towards wage repression, especially in fiscal policy. It does not have to be this way, since the government budget can be reoriented to reduce social conflict and stimulate growth and investment, especially in the current situation of low real interest rates.

FORUM

17.00 **Palazzo** della Provincia Sala Depero

THE TECHNOLOGICAL ECOSYSTEM: NETWORKS, **BUSINESSES AND JOBS**

organised by lavoce.info

with SILVIA CANDIANI, GIANLUIGI CASTELLI, PAOLO **COLLINI, RENATO DORRUCCI** introduced by FEDERICA SALIOLA coordinated by LUCA DE BIASE

New technology creates the environment in which individuals and businesses interact using multiple networks. limitations and opportunities are defined by crucial factors such as the quality of human capital and the institutional system.

DISCUSSIONS

17.00 Palazzo Calepini Sala Fondazione Caritro

DIGITAL INNOVATION HUBS AND INDUSTRY 4.0

organised by the Fondazione EIT Digital Italy

coordinated by FEDERICO GUERRINI speakers: ANDREA BIANCHI, ROBERTO BUSATO, FABIO PIANESI

The Digital Innovation Hubs provided for by Italy's Industry 4.0 plan will act as a bridge between business, research and finance. But how will their services be structured in concrete terms? What type of support will they offer businesses? In what way will they help them with the training and retraining of workers?

DISCUSSIONS

17.30 Dipartimento di Economia e Management Sala Conferenze

DATA SCIENCE AS A NEW PROFESSION

organised by the Data Science Master's Degree Committee of the University of Trento

coordinated by IVANO BISON speakers: GIUSEPPINA CIVARDI, VILMA SCARPINO, MARCO SIMONI

The potential of data science in different socioeconomic

contexts such as big data and open public data makes it a powerful and useful tool for public administrators, market and social research and businesses.

IN HISTORY

18.00

Sala Filarmonica

FRANCESCA TRIVELLATO

TECHNOLOGY AND JOBS BEFORE THE INDUSTRIAL REVOLUTION: MURANO GLASS

introduced by PIETRO DEL SOLDÀ

Well before the industrial revolution, for centuries old guild rules, new materials, restructuring of the work hierarchy and early forms of mechanisation conditioned the technological development of the most advanced areas of the European economy. Between the 15th and 19th centuries, production of precious Murano glass was affected by major transformations taking place in response to the opening up of new colonial markets and the birth of new manufacturing centres in Bohemia and Britain. The Venetian tradition thus evolved rapidly, in directions that are little known but worthy of interest.

VISIONS

18.30

Palazzo Geremia

BRANKO MILANOVIC



RECENT CHANGES IN GLOBAL INCOME DISTRIBUTIONS AND THEIR POLITICAL IMPLICATIONS

introduced by FRANCESCO MANACORDA

The talk will discuss the evolution in global income inequality and focus on its political implications; in particular, the rise of the middle class in Asia, income stagnation of the rich countries' middle classes, migration as part of globalization, and the emergence of global plutocracy (global top 1 percent).

FUTURE JOBS

GERARDO GRECO, VITTORIO MELONI, MICHELE POLO, **GIUSEPPE SMORTO**

18.30 Dipartimento di Lettere e Filosofia Auditorium

JOURNALISM IN THE ERA OF THE SOCIAL MEDIA coordinated by MASSIMO GAGGI

The advent of the social media has radically changed the world of information. Traditional newspapers are finding it increasingly hard to compete with the giants of the web, from Google to Facebook. Is the journalistic profession still of topical interest?

MEETINGS WITH AUTHORS

19.00 **Facoltà**

MARTA FANA

NON È LAVORO, È SFRUTTAMENTO

organised by Editori Laterza

di Giurisprudenza Aula Magna discussed with FEDERICO RAMPINI, ANDREA ROVENTINI coordinated by TONIA MASTROBUONI

CINECONOMY

20.30

Cinema Modena

BLADE RUNNER

directed by RIDLEY SCOTT with HARRISON FORD, RUTGER HAUER, SEAN YOUNG

An advance vision of the era of major technological transformation linked to androids and artificial intelligence. An extraordinarily topical classic. It was not by chance that Steve Jobs chose Ridley Scott for the Apple Mac commercial whose message was: "We are changing the history of human thought".

organised by MARCO ONADO and ANDREA LANDI

CONTEMPORARY WITNESSES

21.00

Teatro Sociale

DIEGO PIACENTINI

WHO DICTATES THE DIGITAL AGENDA?

introduced by MASSIMO GAGGI

The Italian digital agenda is still largely unimplemented. How can this delay be explained? How can it be overcome? The opinion of the Government Commissioner for the Digital Agenda, former Vice-President of Amazon.com.

CONCERT ON 2 JUNE

21.00 Auditorium Santa Chiara

MUSIC: BEAUTY AT WORK

organised by the "F.A. Bonporti" Conservatoire of Trento and Riva del Garda

Conductor: JULIAN LOMBANA

Concert by the orchestra of the Bonporti Conservatoire of Trento and Riva del Garda entitled "L'Italia chiamò": wind music for Republic Day.

Free entry until full capacity is reached.

RAI - RADIO3

PRIMAPAGINA - PRESS REVIEW

7.15

presented by PIERANGELO GIOVANETTI organised by CRISTIANA CASTELLOTTI

from Rai Trento HQ

DISCUSSIONS

9.30 Ex Convento Agostiniani OECD offices REGIONAL PRODUCTIVITY CATCHING UP: THE ROLE OF THE EU COHESION POLICIES AND THE OECD PERSPECTIVE

organised by Trento OECD centre for local development

coordinated by ANDREA FRACASSO speakers: LEWIS DIJKSTRA, ALEXANDER LEMBCKE

Many OECD and EU countries are struggling with growing economic disparities between the regions in their countries. This session presents new results on what regions and regional policy can do to narrow economic gaps and promote "catching up".

KEYWORDS

RICCARDO ZECCHINA

10.00
Dipartimento
di Economia
e Management
Sala Conferenze

BIG DATA

introduced by **DIEGO GIULIANI**

Science and technology are evolving at an unprecedented pace thanks to an explosion in the amount of data available and the development of new artificial intelligence techniques for their analysis. The socioeconomic repercussions are already evident and it is important to have a realistic understanding of what we can expect in the near future.

MEETINGS WITH AUTHORS

10.00 Castello del Buonconsiglio Sala Marangonerie PIERRE CAHUC



CONTRO IL NEGAZIONISMO

organised by Università Bocconi Editore

discussed with GIORGIO BARBA NAVARETTI, CLAIRE JONES, LUIGI ZINGALES coordinated by TONIA MASTROBUONI

RAI - RADIO3

10.15

Piazza Duomo

TUTTA LA CITTÀ NE PARLA

presented by PIETRO DEL SOLDA organised by CRISTIANA CASTELLOTTI with ROSA POLACCO

Guests, topics, books and testimony: the Festival appointments recounted live every day for the public in the Piazza and Radio 3 listeners.

IN HISTORY

11.00

Palazzo Geremia

ROBERT ALLEN



THE INDUSTRIAL REVOLUTION: A DANCE OF PROGRESS AND POVERTY

introduced by MARCO PANARA

The industrial revolution was the result of Britain's the eighteenth century empire, that focused world wide demand for manufactured goods onto Britain's handicraft industries like spinning and weaving. These boomed creating a higher wage structure than elsewhere in the world and cheaper energy to fuel the growing cities. Inventors designed machines to economize on the expensive labour. Factory production destroyed the handicraft manufacturers in the first half of the nineteenth century. Wage inequality rose dramatically as the hand trades collapsed, and average wages remained flat as capitalists gained from rising productivity. It was not until after 1850 that the handcraft sector was liquidated and average wages rose in step with productivity.

SPOTLIGHT

Aula Magna

11.00 **Facoltà** di Giurisprudenza

ANDREA BOITANI

ALITALIA

coordinated by MARCO RUFFOLO

In the last twenty years, few affairs have involved such an interweaving of economics and politics as the Alitalia case, with involvement trade unions, of management technological developments. Thus an analysis of Alitalia's situation allows us to understand the contradictions but also the opportunities in our country, starting from the crucial sector represented by transport.

11.00

Sala Filarmonica

INTERSECTIONS MAURIZIO FERRARIS

WORK TIME, LIVING TIME

introduced by **ALBERTO FAUSTINI**

We are living in an era of total mobilisation: the web and mobile phones cancel the distinction between leisure time and time dedicated to work. Our every action on the Internet leaves a trace and generates data that have an economic value, with consequences we find it difficult to predict.

DISCUSSIONS

11.00 Fondazione Bruno Kessler

Sala Conferenze

LIFELONG LEARNING AND SMALL BUSINESSES: WHAT IS THE BEST MODEL FOR ITALY?

organised by CEST - Centro per l'Eccellenza e gli Studi Transdisciplinari

coordinated by FEDERICA MELUZZI speakers: AVIANA BULGARELLI, GIUSEPPE CROCE, ENRICO GIOVANNINI

65% of children today will do a job that does not yet exist. How is it possible to prepare for such a changing employment market? Lifelong learning will be fundamental to make the digital revolution socially sustainable: how can this practice be reinforced in the Italian fabric made up of small businesses?

DISCUSSIONS

11.00 Palazzo Calepini Sala Fondazione Caritro

DIGITAL TECHNOLOGY: THE FOURTH INDUSTRIAL REVOLUTION

organised by Altroconsumo

coordinated by STEFANIA VILLA speakers: ROBERTO ESPOSITO, ANDREA RANGONE, ALICE ROVATI

After the revolutions represented by steam engines, electricity and information technology and telecommunications, the fourth industrial revolution is characterised by pervasive connectivity. What are the effects of this transformation on the way of providing products and services?

DIALOGUES

11.30
Dipartimento
di Lettere e Filosofia
Auditorium

MARIA CHIARA CARROZZA, MASSIMO EGIDI

FROM RESEARCH TO TECHNOLOGY: A MANAGEABLE PROCESS?

coordinated by MASSIMO SIDERI

Much of the most widespread technology – with significant consequences on the employment market – comes from the results of basic research in a strongly integrated process. It this governed by the market or public policy?

DISCUSSIONS

11.30 Ex Convento Agostiniani Sede CCI

OPEN DATA AND JOBS: EXPERIENCES OF DATA JOURNALISM IN EUROPE AND AFRICA

organised by the Centro per la Cooperazione Internazionale / Osservatorio Balcani Caucaso Transeuropa di Trento

coordinated by GIUSEPPE LAURICELLA speakers: FRANCESCA DE CHIARA, GUILLAUME DUVAL, JACOPO OTTAVIANI

How is the journalist's job changing in the era of open data? Can open data contribute to injecting life and credibility into a profession fundamental for democracy? Experiences of data journalism in Europe and Africa representing examples of the encounter between work and technology.

FORUM

12.00 Palazzo della Provincia Sala Depero

BIG DATA: THE MEMORY BUSINESS

organised by lavoce.info

with RENZO AVESANI, MICHELE CENTEMERO, DOMENICO FAVUZZI, ALFONSO MARTINEZ introduced by RICCARDO PUGLISI coordinated by LUCA DE BIASE

Every action that each person makes online, every walk in the city, every payment with a credit card or bank account movement, every like left on the social networks and every sudden braking in the car: all this and much more is recorded constantly by one or more servers. The mass of data emerging allows analysis that was previously impossible and unthinkable correlations. All this generates risks for human rights and opportunities for business. How can "ecologically balanced" development be imagined for the ecosystem of digital data and the economics of their exploitation?

MEETINGS WITH AUTHORS

12.00 **Biblioteca comunale**

LUIGI ZINGALES

WWW.CAPITALISNT.COM

discussed with PIETRO DEL SOLDÀ, JONATHAN ZENTI coordinated by TONIA MASTROBUONI

VISIONS

15.00

Palazzo Geremia

LUIGI ZINGALES

HOW FINTECH WILL CHANGE THE FINANCIAL INDUSTRY

introduced by **FERDINANDO GIUGLIANO**

Traditionally, the financial industry has been relatively labor intensive. How will financial technology – be it blockchain, artificial intelligence or big data – change the demand for labor in this industry? Will the overall efficiency improvements generated by fintech in the rest of the economy compensate for the loss of jobs in the financial industry?

VISIONS

15.00 Castello del Buonconsiglio Sala Marangonerie

BEATRICE WEDER DI MAURO



INET LECTURE - CRYPTOCURRENCIES, BITCOIN AND **BLOCKCHAIN: BIG BUBBLE OR THE FUTURE OF MONEY?**

introduced by **ALESSANDRO BARBERA**

Fintech enthusiasts are convinced that cryptocurrencies are disrupting finance, privatizing money, rendering old style banking and central banks irrelevant. By contrast, economists argue that bitcoin is an inferior form of money and the latest manifestation of a "Dutch tulip" bubble. Who is right?

DIALOGUES

15.00 Palazzo della Provincia Sala Depero

FERNANDO DI NICOLA, CRISTIANO GORI, CHIARA SARACENO, PASQUALE TRIDICO

MINIMUM INCOME SCHEMES

coordinated by **DARIO DI VICO**

Citizenship income, quaranteed income, minimum income and social inclusion income... A comparison of projects and experience.

MEETINGS WITH AUTHORS

15.00 Biblioteca comunale

SERGIO RIZZO

IL PACCO

organised by Feltrinelli

discussed with GIORGIO BARBA NAVARETTI, BRUNO TABACCI coordinated by TONIA MASTROBUONI

DISCUSSIONS

15.00 Palazzo Calepini Sala Fondazione **Caritro**

TECHNOLOGY THAT DEMOCRATISES EMPLOYMENT

organised by the Associazione Giovani Coooperatori Trentini

speakers: DANILO D'ELIA, ALESSIA MACCAFERRI, ALESSANDRO MININNO, FLAVIANO ZANDONAI

Not just smart working, but also sharing of information, the possibility of taking decisions collectively and an increase in transparency within companies. How is new technology transforming our way of working?

DISCUSSIONS

15.00 **Fondazione Bruno Kessler** Sala Conferenze

WHAT WILL THE FUTURE GIVE US AND WHAT WILL IT **TAKE AWAY?**

organised by AIF Associazione Italiana Formatori

speakers: ANTONELLO CALVARUSO, MAURIZIO FERRARIS, MAURIZIO MILAN

An economist, a philosopher and a manager exchange ideas on the transformation underway due to new economic models such as the gig economy and sharing economy. Are the intermediary platforms transparent instruments or mechanisms with domain logic that is unknown to us? Will the jobs of the future be technical or ideological?

16.30 **Facoltà** di Giurisprudenza Aula Magna

INTERSECTIONS STEFANO SCARPETTA

WHO IS AFRAID OF AI?

introduced by **ENRICO FRANCO**

Which jobs are most at risk of automation and which ones will be subjected to the greatest changes in terms of the tasks and skills required? How is the risk of automation divided between countries? Who are the workers at greatest risk? And how is it possible to avoid those losing their jobs becoming victims of technology?

VISIONS

17.30 **Teatro Sociale**

MICHAEL SPENCE



TECHNOLOGY AND JOBS: WHAT DID WE LEARN?

introduced by TITO BOERI

What lessons can we learn from the four days of discussion at the Festival? Should we fear the advent of new technology? Can it combat persistent stagnation? Can it offer new opportunities to the most economically backward countries? And what can be done to prevent a few from commandeering the advantages? An all-round interview with the 2001 Nobel Prize-winner.

The Scientific Director

TITO BOERI

President of INPS since February 2015, he is on leave from his posts as Professor of Economics at Bocconi University, where he had the role of Prorector for Research. He has been the Scientific Director of the Fondazione Rodolfo Debenedetti (www.frdb.org) since it was established. He has published 13 books with Oxford University Press, MIT Press and Princeton University Press, along with numerous scientific articles in the most prestigious economics magazines. He was Centennial Professor at the London School of Economics and senior economist at the OECD, where he dealt with the transition of former Soviet Bloc countries to a market economy, a consultant to the European Commission, the European Central Bank, the ILO, the World Bank and the Italian Government. He was a leader writer for "la Repubblica", "Il Sole 24 Ore" and "La Stampa". He is the inspiration behind the economics website www.lavoce.info. He is a member of the Academia Europaea, a Research Fellow of the European Economic Association, the European Association of Labour Economists, CEPR - Center for Economic Performance, IZA, Netspar and Igier-Bocconi.

His most recent publications in Italian include: *Populismo e stato sociale*, Laterza (2017); *Parlerò solo di calcio*, Il Mulino (2012); *Le riforme a costo zero* (with P. Garibaldi), Chiarelettere (2011); *Classe dirigente* (editor, together with A. Merlo and A. Prat), Università Bocconi (2010); *La crisi non è uguale per tutti*, Rizzoli (2009); *Contro i giovani* (with V. Galasso), Mondadori (2007).

Speakers

ROBERT ALLEN

He is Global Distinguished Professor of Economic History, Social Science, at New York University, Abu Dhabi. Before joining NYU, he was associated with Oxford University (2000-2013) where he was Professor of Economic History.

His research interests focus on history of economic growth, economic history and economic development, technological change, environmental history and public policy. For his work, books and articles, he is the recipient of numerous prizes and awards including Book of the Year (*The British Industrial Revolution in Global Perspective, Cambridge University Press, 2009*) in "the Economist and Times Literary Supplement"; Explorations Prize for the best article (*Engel's Pause: Technical Change, Capital Accumulation, and Inequality in the British Industrial Revolution*) in "Explorations in Economic History", 2009; the Ranki Prize for the best book on European Economic History (*Farm to Factory: A Reinterpretation of the Soviet Industrial Revolution,* Princeton University Press, 2003).

RICHARD BALDWIN

He is Professor of International Economics at the Graduate Institute, Geneva since 1991, President/Director of CEPR since 2014, and Editor-in-Chief of Vox since he founded it in June 2007. He was visiting professor at Oxford (2012-2015), and MIT (2003). In terms of government service, he was a Senior Staff Economist for the President's Council of Economic Advisors in the Bush Administration (1990-1991) on leave from Columbia University Business School where he was Associate Professor. He did his PhD in Economics at MIT with Paul Krugman with whom he has co-authored several articles. He advises governments and international organisation around the world, and is the author of numerous books and articles on international trade, globalisation, regionalism, and European integration. His latest book, *The Great Convergence: Information Technology and the New Globalisation*, was published in November 2016 by Harvard University Press.

ORIANA BANDIERA

She is Director of the Suntory and Toyota Centre for Economics and Related Disciplines (STICERD) at the London School of Economics, and a fellow of the British Academy, the Econometric Society, CEPR, BREAD and IZA. She is director of the research programme in State Capabilities within the International Growth Centre, and of the research programme in Development Economics at CEPR. She is co-editor of "Microeconomic Insights", "the Journal of Labor Economics" and "Economica".

Her research focuses on the ways in which incentives affect people's behaviour, and how far these effects depend on social context or social relationships.

She was the 2011 recipient of Carlo Alberto medal, awarded biennially to an Italian economist under the age of 40 for outstanding research contributions to the field of economics.

REMO BODEI

He is Professor Emeritus of Philosophy at the University of Pisa, after having lectured at the Scuola Normale Superiore and the University of California, Los Angeles. He is one of the leading experts in the philosophy of classical German idealism and the romantic age, and has concerned himself with aesthetics, utopian thought and forms of temporality, memory and identity in the modern world. He has received numerous prizes and awards for his work. The most recent include the Dessì Prize in 2017, the Giuseppe Giusti literary prize in 2011 and the Napoli Prize

in 2007. His books have been translated into various languages. His more recent publications include: Le logiche del delirio. Ragione, affetti, follia, Laterza (2018); Le virtù cardinali. Prudenza, Temperanza, Fortezza, Giustizia, written with G. Giorello, M. Marzano and S. Veca, Laterza (2017); La vita delle cose, Laterza (2016); Limite, Il Mulino (2016); Scomposizioni. Forme dell'individuo moderno, Il Mulino (2016); La filosofia nel Novecento (e oltre), Feltrinelli (2015); La civetta e la talpa, Il Mulino (2014); Generazioni. Età della vita, età delle cose, Laterza (2014).

PETER BOFINGER

ANDREA BOITANI

He lectures in Political Economy at the Faculty of Banking, Financial and Insurance Science, Università Cattolica del Sacro Cuore in Milan. He is a member of the academic committee of the Master's Degree in Regulatory Economics at the University of Rome II - Tor Vergata, the editorial board of "Politica Economica/Journal of Economic Policy", the management committee of "Munus. Rivista giuridica dei servizi pubblici" and the management committee of "Mercato, concorrenza, regole". He is an editor for www.lavoce.info and writes for "Repubblica - Affari e Finanza" and "Il Sole 24 Ore". His most recent publications include: L'economia in tasca. 100 citazioni imperdibili, Laterza (2017); Sette luoghi comuni sull'economia, Laterza (2017); I trasporti del nostro scontento, Il Mulino (2012); Macroeconomia, Il Mulino (2008, new ed. 2014).

FRANCESCA BRIA

She is Senior Advisor and Expert on technology and innovation policies. She has a PhD in Innovation Economics from Imperial College, London and MSc on Digital Economy from University of London, Birbeck. As Senior Programme Lead at Nesta, the UK Innovation Agency, she has led the EU D-CENT project, the biggest European Project on direct democracy and digital currencies. She also led the DSI project on Digital Social Innovation in Europe, advising the EU on digital social innovation policies. She has been teaching in several universities in the UK and Italy and she has advised Governments, public and private organizations and movements on Technology and Innovation policies, and its socio-economic impact.

She is an adviser for the European Commission on Future Internet and Innovation Policy and she is leading the DECODE project (http://decodeproject.eu) on data sovereignty in Europe. She is currently the Commissioner of Digital Technology and Innovation for the city of Barcelona.

MATTEO BUGAMELLI

He graduated in Economics and Commerce at the University of Bologna in 1991, obtaining a PhD in Economics at Columbia University in New York in 2000. Since 1997 he has been an economist at the Bank of Italy, where he currently works in the Economic Structure and Employment Market Division of the Department of Economics and Statistics. He is an expert in international commerce and industrial economics. He has published works on the link between Chinese competition and the profits of Italian businesses, the interaction between exports, innovation and human capital and the factors hampering the adoption of new technology in Italy; he supervised two reports on the Italian production system (2009 and 2017).

ROBERTO CINGOLANI

He is an Italian physicist and has been Scientific Director of the Istituto Italiano di Tecnologia (IIT) in Genoa since December 2005. From 2000 to 2005 he lectured in general physics at the Faculty of Engineering at the University of Salento and in 2001

he founded the National Nanotechnology Laboratory (NNL) of INFM in Lecce and became its director. Between 1997 and 2000 he was Visiting Professor at the University of Tokyo and Virginia Commonwealth University (USA). From 1991 to 1999 he was first researcher and then Associate Professor of General Physics at the University of Salento (formerly the University of Lecce). From 1989 to 1991 he worked at the Max Planck Institut in Stuttgart, under the direction of Professor Klaus von Klitzing, winner of the Nobel Prize for physics. Since 2001 he has been a member of several European Commission committees in the context of the Sixth and Seventh Framework Programmes in the field of nanotechnology, advanced materials and advanced manufacturing technology. He is a member of the presidential board of the Comitato Nazionale per la Biosicurezza, le Biotechnologia e le Scienze della Vita (CNBBSV). He holds 48 patent families and is the author or co-author of around 750 publications in international magazines. He has written the following educational books: *Umani e umanoidi*, with G. Metta, Il Mulino (2015); *Il mondo è piccolo come un'arancia*, il Saggiatore (2014).

ROBERTA COCCO

She has been Councillor for Digital Transformation and Civic Services at the Municipality of Milan since 2016. She has had a long career with Microsoft, having a variety of roles until she became Central Marketing Director. Since 2014 she has been Director of National Development Plans for Western Europe, promoting innovative development projects and the implementation of the Digital Agenda with governments and institutions in the 12 countries within the area. Since 2004, with futuro@lfemminile, she has worked on projects to bridge the gender gap through ICT, in collaboration with international organisations including UN Women, UNESCO, ITU and UNRIC. She has lectured in Brand Management and Communication at the LIUC University in Castellanza (Varese) since 2006.

VALERIO DE STEFANO

He lectures in Labour Law at the Catholic University of Leuven. He obtained a PhD in Corporate Law at Bocconi University, where he was also research fellow and contract professor on Labour Law. From 2014 to July 2017 he worked at the International Labour Office (ILO) in Geneva, where he was one of the authors of the ILO report, Non-standard employment around the world: Understanding challenges, shaping prospects (2016). He has published numerous articles and essays on non-standard work and recently edited the special issue Crowdsourcing, the Gig-Economy and the Law in the "Comparative Labor Law & Policy Journal" (vol. 37, 2016).

DAVID DORN

He is Professor of International Trade and Labor Markets at the University of Zurich and Affiliated Professor at the UBS International Center of Economics in Society. He was previously a tenured Associate Professor at the Center for Monetary and Financial Studies (CEMFI) in Madrid, a Visiting Professor at Harvard University, and a Visiting Scholar at Boston University, MIT, and the University of Chicago.

His research and studies focus on how globalization and technological innovation affect labor markets.

He is a Research Fellow of the Centre for Economic Policy Research (CEPR) in London, the Institute for the Study of Labor (IZA) in Bonn, and the Center for Economic Studies/ifo Institute (CESifo) in Munich. He is a member of the Editorial Board of the "Review of Economic Studies", and an Associate Editor of the "Journal of the European Economic Association".

BARRY EICHENGREEN

He is the George C. Pardee and Helen N. Pardee Professor of Economics and Professor of Political Science at the University of California, Berkeley, where he has taught since 1987, and Pitt Professor of American History and Institutions, University of Cambridge, 2014-15. He is a Research Associate of the NBER and Research Fellow of the CEPR. In 1997-98 he was Senior Policy Advisor at the International Monetary Fund.

He is the convener of the Bellagio Group of academics and economic officials and chair of the Academic Advisory Committee of the Peterson Institute of International Economics. He has held Guggenheim and Fulbright Fellowships and has been a fellow of the Center for Advanced Study in the Behavioral Sciences (Palo Alto) and the Institute for Advanced Study (Berlin). He is a regular monthly columnist for "Project Syndicate".

His most recent book is *The Populist Temptation: Economic Grievance and Political Reaction in the Advanced Economies*, Oxford University Press, 2018.

MAURIZIO FERRARIS

He is full Professor of Philosophy at the University of Turin, where he is the Deputy Rector for Humanities Research and the President of the LabOnt – Laboratory for Ontology. Directeur de recherche at the Collège d'études mondiales (Paris) and advisory member of the Center for Advanced Studies of South East Europe (Rijeka) and of the Internationales Zentrum Für Philosophie NRW, he is doctor honoris causa in Humanities at the University of Flores (Buenos Aires).

He is columnist for "La Repubblica", the Director of "Rivista di Estetica" of "Critique", of "Círculo Hermenéutico editorial" and of the "Revue francophone d'esthétique".

He wrote more than fifty books that have been translated into several languages. The most recent book appeared in English is *Positive Realism*, Zero Books, 2015.

RICHARD B. FREEMAN

He is Ascherman Chair in Economics at Harvard University, Faculty co-Director of the Labor and Worklife Program at the Harvard Law School and Senior Research Fellow in Labour Markets at the LSE's Centre for Economic Performance. He directs the Science and Engineering Workforce Project at the NBER and is Co-Director of the Harvard Center for Green Buildings and Cities. His research interests include the job market for scientists and engineers; the transformation of scientific ideas into innovations; Chinese labor markets; the effects of AI and robots on the job market; and forms of labor market representation and employee ownership. Recent books include *The Citizen's Share: Putting Ownership Back into Democracy* (with J. Blasi and D. Kruse), Yale Univ Press, 2013; *Shared Capitalism at Work: Employee Ownerships, Profit and Gain Sharing and Broad-based Stock Options* (with J. Blasi and D. Kruse), University of Chicago Press, 2010; *Science and Engineering Careers in the United States* (with D. Goroff), University Chicago Press for NBER, 2009.

AVI GOLDFARB

He is the Ellison Professor of Marketing at the Rotman School of Management, University of Toronto, Chief Data Scientist at the Creative Destruction Lab, Senior Editor at Marketing Science, and Research Associate at the National Bureau of Economic Research.

He has published over 50 articles on the impact of technology in a variety of outlets in economics, marketing, statistics, computing, and law. This research has been discussed in White House reports, European Commission documents, the "Economist", "The New York Times", the "Financial Times", "The Wall Street Journal", and elsewhere. He is coauthor of the book *Prediction Machines: The Simple Economics of Artificial Intelligence*" (with A. Agrawal and J. Gans), Harvard Business Review Press (2018).

SHANE GREENSTEIN

He is the Martin Marshall Professor of Business Administration and co-chair of the HBS Digital Initiative. He teaches in the Technology, Operations and Management Unit. He is also co-director of the program on the economics of digitization at The NBER. Encompassing a wide array of questions about computing, communication, and Internet markets, his research extends from economic measurement and analysis to broader issues. His most recent book focuses on the development of the commercial Internet in the United States. He also publishes commentary on his blog, Digitopoly, and his work has been covered by media outlets ranging from "The New York Times" and "The Wall Street Journal" to "Fast Company" and "PC World".

He previously taught at the Kellogg School of Management, Northwestern University, and at the University of Illinois, Urbana/Champaign.

ROB JOHNSON

ALAN B. KRUEGER

Bendheim Professor of Economics and Public Affairs at Princeton University, he has held a joint appointment in the Economics Department and Woodrow Wilson School since 1987. He is the founding Director of the Princeton University Survey Research Center. He served as Chairman of President Barack Obama's Council of Economic Advisers and a Member of his Cabinet in 2011-13. He also served as Assistant Secretary for Economic Policy and Chief Economist of the U.S. Department of the Treasury in 2009-10, and as Chief Economist at the U.S. Department of Labor in 1994-95.

He has published widely on the economics of education, terrorism, unemployment, labor demand, income distribution, social insurance, labor market regulation and environmental economics.

He is the author of *What Makes A Terrorist: Economics and the Roots of Terrorism*, Princeton University Press, 2007; *Inequality in America: What Role for Human Capital Policies* (with J. Heckman), MIT Press, 2004; *Myth and Measurement: The New Economics of the Minimum Wage* (with D. Card), Princeton University Press, 1995. He is currently writing a book on Rockonomics, on the economics of the music industry.

STEPHEN J. MACHIN

Since 1988, he has repeatedly held positions at University College London and the Centre for Economic Performance (CEP) at the London School of Economics (LSE) before becoming CEP's director and accepting a Professorship in economics at LSE in 2016.

He has held visiting appointments at Harvard University (1993-94) and at MIT (2001-02).

He is currently a Member of the Council of the Royal Economic Society and of the European Economic Association. He is a Fellow of the British Academy and was a member of the UK Low Pay Commission between 2007 and 2013.

His research focuses on labour economics, the economics of education, and the economics of crime.

His papers have been published in leading peer reviewed journals including "Economic Journal", "American Economic Review", "Quarterly Journal of Economics" and "Review of Economic Studies".

PHILIP McCANN

He is Professor of Urban and Regional Economics in the University of Sheffield Management School. He is also the Tagliaferri Research Fellow in the Department of Land Economy at the University of Cambridge 2015-2018 and Honorary Professor of Economic Geography in the Faculty of Spatial Sciences at the University of Groningen, The Netherlands, 2017-2022.

He is one of the world's most highly cited and widely published spatial economists and economic geographers of his generation, with over 3300 ISI-Web of Science citations. He has also been a Special Adviser to two European Commissioners, an advisor to the European Commission, the OECD, the European Investment Bank, as well as government ministries and research institutes in several countries.

BRANKO MILANOVIC

He is a Visiting Presidential Professor at the Graduate Center City University of New York and Senior Scholar at the Stone Center for Socio-economic Inequality. He obtained his Ph. D. in economics (1987) from the University of Belgrade with a dissertation on income inequality in Yugoslavia. He served as lead economist in the World Bank's Research Department for almost 20 years, leaving to write his seminal book on global income inequality, Worlds Apart (2005). He was senior associate at the Carnegie Endowment for International Peace in Washington (2003-2005) and has held teaching appointments at the University of Maryland (2007-2013) and at the Paul H. Nitze School of Advanced International Studies at Johns Hopkins University (1997-2007). His main area of work is income inequality, in individual countries and globally, including in pre-industrial societies. In addition to numerous papers for the World Bank, he has published articles on on several economic reviews. His book, The Haves and the Have-nots (2011) was selected by "The Globalist" as the 2011 Book of the Year. His new book, Global Inequality (2016), was awarded the Bruno Kreisky Prize. In October 2017, he was awarded (jointly with Mariana Mazzucato) the 2018 Leontief Prize for Advancing the Frontiers of Economic Knowledge.

JOEL MOKYR

Robert H. Strotz Professor of Arts and Sciences and Professor of Economics and History at Northwestern University since 1994, his current research is concerned with the understanding of the economic and intellectual roots of technological progress and the growth of useful knowledge in European societies, as well as the impact of industrialization and economic progress on economic welfare. He is the author or editor of 15 books and over a hundred articles in economics and history.

He is a Fellow of the American Academy of Arts and Sciences, the Econometric Society, the Cliometric Society, the Italian Accademia dei Lincei, The British Academy and the Dutch Royal Academy.

He has been the President of the Economic History Association, editor in chief of the Oxford Encyclopedia of Economic History, and a co-editor of the "Journal of Economic History". He is currently editor in chief of Princeton's University Press's series in Economic History.

His latest book is *A Culture of Growth: Origins of the Modern Economy*, Princeton University Press, 2016.

EVGENY MOROZOV

He is the author of The Net Delusion and To Save Everything, Click Here. His monthly column on technology and politics appears in The Observer (UK) and is syndicated in various newspapers across Europe. His writings have appeared in The New Yorker, The New York Times, The Wall Street Journal, Financial Times, and other publications. Previously a senior editor at The New Republic, he has been a fellow at Georgetown University, Stanford University, Open Society Foundations, New America Foundation, and the American Academy in Berlin.

ROBERTO NICASTRO

He is European Advisor for Cerberus Capital, one of the leading global private equity firms in the banking/financial sector. He is also Chairman of the Cassa del Trentino, as well as having other advisory roles and being active as an *angel investor* in the

Fintech sector. In 2015-2017 he was Chairman of the 4 'Good Banks' (Chieti, Ferrara, Etruria and Marche) entrusted by the Bank of Italy's National Resolution Fund with the task of turning them around and selling them in the context of the BRRD (first Bail-In case in Europe). He previously worked for the Unicredit group for 18 years, joining in 1997 as Head of Planning and becoming Director General in 2011. In Unicredit, among other things, he had responsibility for creating and leading the Central and Eastern European and Retail Divisions. In the 2010-2012 period he was Chairman of the European Financial Marketing Association, while in 2014-2015 he took on the role of acting Vice-President of ABI. He had previously worked for McKinsey & Co. and Salomon Brothers in London.

MARCO ONADO

Senior Lecturer at the Department of Finance at Bocconi University in Milan, he was previously a Lecturer on the Economics of Financial Intermediaries at the Universities of Modena and Bologna. Visiting Professor at the University College of North Wales and Brown University, he is a member of the scientific committee of Prometeia (an association for econometric research in Bologna) and the journals "Banca Impresa e Società" and "Mercato Concorrenza Regole". He was commissioner of the stock exchange from 1993 to 1998. Until 2017 he was a trustee of the IFRS Foundation in London.

He is a columnist for "Il Sole 24 Ore", editor for www.lavoce.info and writes for voxeu.org. His more recent publications include: *Prendi i soldi e scappa. La finanza spiegata con il cinema*, Laterza (2018); *Alla ricerca della banca perduta*, Il Mulino (2017); *Finanza senza paracadute*, Il Mulino (2012); *I nodi al pettine. La crisi finanziaria e le regole non scritte*, Laterza (2009).

DIEGO PIACENTINI

From August 2016 to September 2018, he worked on a pro bono basis for the Italian government, assisting with the digital transformation of the public administration. He is currently on leave from Amazon.com, where he worked for sixteen years, becoming Senior Vice President International. At Amazon he was also a member of the executive team and responsible for all international retail operations in Europe, Japan, China and India. In 1987 he joined Apple and in 1997 he was promoted to General Manager and Vice-President of Apple Europe, in Paris. Before joining Apple Computer, he held a financial management position at Fiat Impresit in Italy. He is on the board of the Maasai Association, an organisation supporting educational and health initiatives in Kenya; he is also an investor in Unitus Seed Fund, an investment fund with offices in Bangalore and Seattle that invests in innovative start-up companies in India. He is a member of the Advisory Board and a mentor of Endeavor Global. He graduated in Economics and Commerce at Bocconi University in Milan and won the "Bocconian of the year" award in 2010.

FEDERICO RAMPINI

Editorial writer and correspondent for "la Repubblica" in New York. A White House accredited reporter, he often follows the President on his travels and deals with the international G7 and G20 summits. He has been a correspondent in Peking, San Francisco, Paris and Brussels, and Deputy Editor of the "Sole 24 Ore" newspaper. He has lectured at the Universities of Berkeley, Shanghai and SDA-Bocconi. He has created and performed in several theatrical works, most recently *Trump Blues*. *L'età del caos*. He is the author of essays translated into various languages. His latest books are: *Le linee rosse. Uomini, confini, imperi: le carte geografiche che raccontano il mondo in cui viviamo*, Mondadori (2017); *Il tradimento. Globalizzazione e immigrazione, le menzogne delle élite*, Mondadori (2016); *All You Need Is Love. L'economia spiegata con le canzoni dei Beatles*, Mondadori (2015); *La trappola*

dell'austerity. Perché l'ideologia del rigore blocca la ripresa, Laterza (2014); Rete padrona. Amazon, Apple, Google & co. Il volto oscuro della rivoluzione digitale, Feltrinelli (2014); San Francisco-Milano. Un italiano nell'altra America, Laterza (2013).

IMRAN RASUL

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