

THE FUTURE OF SCIENCE™



**Twelfth World Conference on The Future of Science**  
**“Digital Revolution: what is changing for human kind?”**

22 – 24 September 2016

Venice, Fondazione Giorgio Cini, Isola di San Giorgio Maggiore

*Program draft with invited Speakers – July 18<sup>th</sup>, 2016*

**The pervasive Digital Revolution is one of the most topical phenomena of our age, bringing about profound changes on the social, cultural, medical and scientific level.**

Every stage of our life is undergoing deep transformations as traditional roles and phases evolve, with largely unexplored consequences of the greater human –machine collaboration.

The twelfth edition of "The Future of Science" World Conference will attempt to unveil the secrets of the digital age. From 22 to 24 September, some of the world's leading experts will gather on the Island of San Giorgio Maggiore in Venice to discuss the most pressing issues arising from this revolution.

For information and registration [info@thefutureofscience.org](mailto:info@thefutureofscience.org) - [www.thefutureofscience.org](http://www.thefutureofscience.org)

## Conference Committees

- **President** - Umberto Veronesi
- **Vice President** - Kathleen Kennedy Townsend
- **Secretary General** - Chiara Tonelli
- **Organizing Committee** - Carlo Bucci, Pasquale Gagliardi, Armando Peres, Lucio Pinto, Monica Ramaioli, Giada Tronchetti Provera

## The Conference is organized by:



**Thursday September 22<sup>nd</sup> , 5.00 p.m. – 7.00 p.m.**

### WELCOME ADDRESSES

### OPENING LECTURES

• <b>Alessandro Curioni</b>	IBM Fellow, Vice President Europe and Director IBM Research, Zurich Research Laboratory, Switzerland	<i>Artificial Intelligence</i>
• <b>Sheila Jasanoff</b>	Pforzheimer Professor of Science and Technology Studies Director, Program on Science, Technology and Society Harvard Kennedy School	<i>The relation between Science, Technology, and Society</i>

**Thursday September 22<sup>nd</sup> , 7.00 p.m. – 9.00 p.m.**

### WELCOME COCKTAIL

**Friday September 23<sup>rd</sup>, 9.00 a.m. – 1.00 p.m.**

**NEW FRONTIERS IN DATA DRIVEN WORLD**

**Chairs:** Lucio Pinto, Managing Director, Fondazione Silvio Tronchetti Provera

• <b>Alberto Sangiovanni-Vincentelli</b>	Edgard and Harold Buttner Chair, Dep.of Electrical Engineering and Computer Sciences, University of California at Berkeley	<i>Internet of Things (IOT) and Virtual Reality</i>
• <b>Alfonso Fuggetta</b>	<i>Professor, Politecnico di Milano; CEO and Scientific Director, CEFRIEL</i>	<i>Big data: challenges and opportunities</i>
• <b>Derrick de Kerckhove</b>	Professor, Former Director of the McLuhan Program in Culture and Technology, University of Toronto	<i>Brainframes, Connected Intelligence</i>
• <b>Carlo Ratti</b>	Director, MIT Senseable City Lab Founding Partner, Carlo Ratti Associati	<i>Senseable Cities</i>
• <b>April Rinne</b>	Sharing Economy Advisor, Portland, Oregon	<i>The Sharing Economy: Rethinking Commerce, Connectivity and Community</i>

**PANEL DISCUSSION**

**LUNCH**

**Friday September 23<sup>rd</sup>, 2.00 p.m. – 6.00 p.m.**

**THE DIGITAL SOCIETY: CONNECTED, VIRTUAL AND SMARTER**

**Chairs:** Pier Luigi Vercesi, Director of Sette - Corriere della Sera and Emanuele Borgonovo, Professor Department of Decision Sciences, Bocconi University

• <b>Patrizia Nanz</b> <i>and</i> • <b>Ariane Götz</b>	Scientific Director of the Institute for Advanced Sustainability Studies; Professor for Transformative Sustainability Studies, University Potsdam; Chair of the European Institute for Public Participation. Research Associate, Sustainability Governance, Institute for Advanced Sustainability Studies, Posdam	<i>Democracy in the digital age – Challenges and chances for political participation</i>
• <b>Gary King</b>	Albert J. Weatherhead III University Professor, Department of Government; Director of the Institute for Quantitative Social Science, Harvard University	<i>Innovations that span the range from statistical theory to practical application</i>
• <b>Carlo Batini</b>	Professor, Department of Computer Science, Università degli Studi-Milano Bicocca	<i>The social value of big data</i>
• <b>Massimiano Bucchi</b>	Professor of Science and Technology in Society, Università di Trento	<i>Why Technology is not enough: Innovation, society and culture</i>

**PANEL DISCUSSION**

**Saturday September 24<sup>th</sup>, 9.00 a.m. – 12.30 a.m.**

**COMBINING THE DIGITAL AND BIOLOGICAL WORLD**

**Chairs:** **Gabriele Beccaria**, Scientific reporter and editor of *Tuttoscienze* – *La Stampa* and **Chiara Tonelli**, Vice-Rector for Research, Professor of Genetics, Department of BioSciences, University of Milan

• <b>Sabina Leonelli</b>	Professor Philosophy of Science, University of Exeter	<i>Integrating Biological, Biomedical and Environmental Data: The Impact of Digital Technology on Research</i>
• <b>Tony Pridmore</b>	Professor, School of Computer Science, University of Nottingham	<i>Image-based Plant Phenotyping - Computer Vision From Lab to Field</i>
• <b>Paul Kersey</b>	Team Leader, Non-vertebrate Genomics, European Bioinformatics Institute, European Molecular Biology Laboratory, Cambridge, UK	<i>Ensemble: Structuring Knowledge for Biomedical Application</i>
• <b>Michael Seewald</b>	Head, Center of Excellence in Real World Evidence, Novartis Basel	<i>Using Big Data and Real World Evidence to Improve Health Outcomes – Industry Perspective</i>
• <b>Giuseppe Testa</b>	Professor of Molecular Biology, University of Milan; Director, Laboratory of Stem Cell Epigenetics, European Institute of Oncology	<i>Digitization of the living</i>

**PANEL DISCUSSION**