

SCIENTIFIC COORDINATOR

Luigi Crema, Fondazione Bruno Kessler, Italy

Luigi Crema has graduated in Physics Methodologies in Environmental Control and Diagnostic at Ferrara University (1998). He won a two years national grant from I.N.F.M. (Italian National Institute for Matter Physics) spent in Sensors and Semiconductors Group at Physics Department in Ferrara University. In 2001 he has been responsible for R&D in a spin-off company, Unitec s.r.l. In 2003 he graduated in Innovative Physics Technologies - Sensors and Semiconductors - at Ferrara University. In 2007 he had an experience as technical responsible for a Composing Plant, S.E.S.A. S.p.A. In late 2008 he became researcher for FBK, in REET unit (Renewable Energies and Environmental Technologies), where he is coordinating the scientific activity on Renewable Energies. Luigi Crema has several proceedings presented in International Congresses on the theme of Renewable Energies. He is invited lecturer in a series of events, latest at the World Renewable Energy Technology Congress 2011, New Delhi – India, and member of the International Advisory Board of the Congress. He has been lecturer for the Master Nano – Micro Technologies (FBK – UniTn) in Renewable Energies.



LECTURERS

Daniele Miorandi, CREATE-NET, Italy

Topic: Why math (and data) matters: models for a +Energy Life Style

Daniele Miorandi is the head of the iNSPIRE Area at CREATE-NET, Italy. He received a PhD in Communications Engineering from Univ. of Padova, Italy, in 2005, and a Laurea degree (summa cum laude) in Communications Engineering from Univ. of Padova, Italy, in 2001. He joined CREATE-NET in Jan. 2005, where he is leading the iNSPIRE (Networking and Security Solutions for Pervasive Computing Systems: Research & Experimentation). His research interests include bio-inspired approaches to networking and service provisioning in large-scale computing systems, ICT solutions for smart energy systems, modelling and performance evaluation of wireless networks, prototyping of wireless mesh solutions. Dr. Miorandi has co-authored more than 100 papers in internationally refereed journals and conferences. He serves on the Steering Committee of various international events (WiOpt, Autonomics, ValueTools), for some of which he was a co-founder (Autonomics and ValueTools). He also serves on the TPC of leading conferences in the networking field, including, e.g., IEEE INFOCOM, IEEE ICC, IEEE Globecom. He is a member of IEEE, ACM and ICST.



Federico Casalegno, MIT – Massachusetts Institute of Technology, United States

Topic: Designing a Connected Sustainable Home

Federico Casalegno, Ph.D., is the Director of the MIT Mobile Experience Lab (<http://mobile.mit.edu>) and Associate Director of the MIT Design Laboratory at the Massachusetts Institute of Technology. Since 2008, he is the director of the Green Home Alliance between the Massachusetts Institute of Technology and the Fondazione Bruno Kessler in Italy. He is adjunct full professor at IMT Institute for Advanced Studies Lucca, Italy. A social scientist with an interest in the impact of networked digital



technologies in human behavior and society, Dr. Casalegno both teaches and leads advanced research at MIT, and design interactive media to foster connections between people, information and physical places using cutting-edge information technology. Since 2004, he has also held a position as Lecturer at the MIT Media Lab Smart Cities group. From 2004 to 2007, he worked at Motorola, Inc., as Technology and Product Innovation Analyst, designing pioneering products, experiences and services for mobile devices. Previously, from 1994 to 2000, he worked at Philips Design on connected communities and new media environments to inform design and product experience planning. Dr. Casalegno holds a Ph.D. in Sociology of Culture and Communication from the Sorbonne University, Paris V, with a focus on mediated communication and social interaction in networked communities and wired cities. He has published several scientific papers in peer-reviewed journals, books and articles. For the Living Memory, connected community project, he was awarded the Best Concept prize by the American Leading Industrial Designers I.D. Magazine, and the Silver Prize Design Concept by the Industrial Designers Society of America (IDSA).

Pablo Viejo García, EIFER – European Institute of Energy, Germany

Topic: IT challenges for the Energy Systems of the Future: Complex, Distributed and Hierarchical Systems thinking'

Currently Chief Officer of Sustainable Cities for EDF in Singapore, Pablo Viejo is graduated architect with expertise in Geographical Information Systems and Urban Planning. After studies in Spain (La Coruña) and Germany (Karlsruhe), he joined EIFER in 2006. In 2005 he got an excellence scholarship from the Spanish King Juan Carlos. Apart from his working experience in several Architecture offices, Pablo Viejo has been teaching at the Karlsruhe Institute of Technology courses about Geographical Information Systems and Planning. His academic work includes a dozen of publications in different domains, including systems modeling and simulation, renewable energy production and energy urban planning. Between 2008 and 2011 responsible of modeling and simulation projects in EIFER (European Institute for Energy Research), where a dozen of researchers worked under Pablo's responsibility on the development of geographically distributed models for simulation using complexity science approaches. Main topics of the group were the diffusion of technologies, the impact of electrical mobility on the load curve, energy demand on urban areas, integral simulation of complex energy systems or behavioral models. By the end of 2011 Pablo moved from its task as Group Manager of the Geosimulation for Energy Research group to a new position in the city of Singapore, developing a Sustainable Cities project within the city-state.

Nikos Hatzigiorgiou, National University of Athens, Greece

Topic: ICT for Active Customer Management

He is deputy CEO of PPC, responsible for Transmission and Distribution Networks, island DNO and the Center of Testing, Research and Prototyping. From 1984 he is with the Power Division of the School of Electrical Engineering of NTUA, where he is full professor, since 1995. He is member of CIGRE, Convener of SCC6, Fellow Member of IEEE, past Chair of the Power System Dynamic Performance Committee, President of the Hellenic Association of Electricity Enterprises (HELAS), member of the BoD of EURELECTRIC and member of the EU Advisory Council of the Technology Platform on SmartGrids. He has participated in more than 60 R&DD Projects, and is coordinator of the EU funded Care, More Care, Microgrids, More Microgrids and Merge projects. He is author of two books and more than 250 scientific publications.



Carlos Alvarez Pereira, Fundacion INNAXIS, Spain

Topic: A holistic view of longterm sustainability. Considerations on the global challenge of our time

Entrepreneur and strategic advisor in the fields of complex systems science and ICT, especially in network-based sectors like transport, telecommunications and energy. He was trained as an Aeronautical Engineer at the Polytechnic University of Madrid, where he served for 12 years as an Associate Professor of Applied Mathematics, starting at the same time a career as a consultant and serial entrepreneur. Founder of several innovative start-ups in different but related fields like fleet management (Ronda Grupo Consultor, 1993), telecommunications (Telenium, 1998) and urban mobility (Skybus, 2009), he created in 2006 the Innaxis Foundation & Research Institute to promote interdisciplinary research based on the concepts of complexity theory. He is also Chairman of the CXP-Barc group, a franco-german strategic adviser in IT systems and business intelligence, as well as Vice-President of the spanish Fulbright Alumni Association.

