Workshop

CHALLENGES OF BIG DATA FOR ECONOMIC MODELING AND MANAGEMENT:
TOOLS FROM EFFICIENCY ANALYSIS, SENSITIVITY ANALYSIS, SENSITIVITY AUDITING AND PHYSICS OF COMPLEX SYSTEMS

DIAG Aula Magna - Via Ariosto, 25 Roma

Tuesday, 10 November 2015

9:00 - 9:30 Arrival and registration

9:30 - 9:45 Welcome
Alberto Marchetti Spaccamela. Head of DIAG, Sapienza University of Rome

9:45 - 10:00 Opening
Marco Listanti. Dean of I3S Faculty, Sapienza University of Rome

Session 1: Introduction and TOOLS
Chair: Giuseppe Catalano, DIAG, Sapienza University of Rome

10:00 - 10:20 Productivity and Efficiency, Physics of Complex Systems, Sensitivity Analysis and Sensitivity Auditing, Data: what is the guiding thread?
Cinzia Daraio. DIAG, Sapienza University of Rome

10:20 - 10:40 EFFICIENCY ANALYSIS FROM PARAMETRIC TO NONPARAMETRIC FRONTIER MODELS: THE STATE OF THE ART
Léopold Simar. Université catholique de Louvain, Belgium

14:10 - 17:20 SENSITIVITY ANALYSIS AND SENSITIVITY AUDITING
Part I and Part II
Andrea Saltelli. Centre for the Study of the Sciences and the Humanities (SVT) - University of Bergen (UIB), and Institut de Ciência i Tecnologia Ambientals (ICTA) - Universitat Autonoma de Barcelona (UAB)

Stefano Tarantola. Joint Research Center, European Commission, Ispra

17:20 - 19:00 PANEL “Big Data Era: challenges, tools and experiences in an interdisciplinary and dynamic world” (Part I)
Chair: Camil Demetrescu. DIAG, Sapienza University of Rome

17:20 - 17:40 Big Data and Health Engineering
Paolo Cappa. Department of Mechanical and Aerospace Engineering, Sapienza University of Rome

Edwin Morley Fletcher. Lynkeus, Italy

17:40 - 18:00 Challenges of Big data for Visual Analytics
Marco Angelini, Giuseppe Santucci. DIAG, Sapienza University of Rome

18:00 - 18:20 Big Crisis Data: Social Media in Disasters and Time-Critical Situations
Carlos Castillo. Qatar Computing Research Institute

18:20 - 18:40 New and effective techniques for classification
Renato Bruni. DIAG, Sapienza University of Rome

18:40 - 19:00 Algorithmic challenges in large scale on-line markets
Stefano Leonardi. DIAG, Sapienza University of Rome

Wednesday, 11 November 2015

Session 2: TOOLS
Chair: Alberto Nastasi, DIAG Sapienza University of Rome

9:30 - 12:45 SENSITIVITY ANALYSIS AND SENSITIVITY AUDITING
Part III and Part IV
Andrea Saltelli. Centre for the Study of the Sciences and the Humanities (SVT) - University of Bergen (UIB), and Institut de Ciência i Tecnologia Ambientals (ICTA) - Universitat Autonoma de Barcelona (UAB)

Stefano Tarantola. Joint Research Center, European Commission, Ispra

13:45 - 15:45 STATISTICAL TOOLS FROM THE PHYSICS OF COMPLEX SYSTEMS
Luca Leuzzi. Soft and Living Matter Laboratory, Institute of Nanotechnology, CNR, Italy

16:00 - 17:20 PANEL “Big Data Era: challenges, tools and experiences in an interdisciplinary and dynamic world” (Part II)
Chair: Tiziana Catarci. DIAG, Sapienza University of Rome

16:00 - 16:20 Interdisciplinarity and Convergence: an example from the Center for Life Nanoscience II.I@Sapienza
Giancarlo Ruocco. Physics Department, Sapienza University of Rome and II.I@Sapienza

16:20 - 16:40 Something new about reading and readers with Big Data
Chiara Faggionati. DOLIFIGE, Sapienza University of Rome

Giovanni Solimine. Sapienza University of Rome

16:40 - 17:00 Organization and Competences: challenges for Management Engineering
Gian Carlo Cairnara. DIST and DOGE, University of Genoa

17:00 - 17:20 Households’ demand for connectivity and economic development. Challenges and new empirical evidence for Italy
Cosimo Dolente. DIAG, Sapienza University of Rome

Claudio Leporelli. DIAG, Sapienza University of Rome

Session 3: Knowledge representation and data integration
Chair: Claudio Leporelli. DIAG, Sapienza University of Rome

17:20 - 17:30 Introduction: Marco Schaerf, DIAG, Sapienza University

17:30 - 18:20 Challenges for knowledge representation and data integration: Ontology-based Data Management and the case of Sapienza
Maurizio Lenzerini. DIAG, Sapienza University of Rome

18:20 - 18:30 Closure
Giorgio Alleva, President of the National Institute of Statistics (ISTAT) and Sapienza University of Rome