



Real Academia de Ingeniería

Advances and Applications of Data Science & Engineering

An international workshop

Madrid, June 14th – 17th, 2016

Time: 9.30 h
Venue: Sala Villar Mir
Real Academia de Ingeniería
c/ Don Pedro, 10 - 28005 Madrid

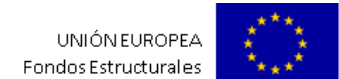
Inscription required:
[Registration form](http://www.raing.es/registro)
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With the collaboration of

Data Science and Engineering Consortium

Project CASI-CAM-CM, Comunidad de Madrid

DAMA Network, Ministry of Economy and Competitiveness



Introduction

Reality speaks data, and Science and Engineering help us to understand its messages. This workshop consists of two series of activities. Mornings are dedicated to advances in data processing and their application to a number of relevant fields. Meetings of three research networks (Data Sci&Eng Consortium, CASI-CAM-CM, and DAMA) will be celebrated after the lunch time. The purpose is to promote both scientific knowledge and collaboration among different agents for getting benefit from data.



Scientific Program (preliminary)

Tuesday, June 14th

- 09:30 Opening Ceremony
J.M. Torralba-Castelló, D. General UI, CE-CM
- 10:00 Session 1A: *Deep Learning*
Chair: A.R. Figueiras-Vidal (RAIng, UC3M/ DS&EC, CASI-CAM-CM, DAMA)
Invited lecture: *A (concise) tutorial on deep learning*
A.R. Figueiras-Vidal (RAIng, UC3M/ DS&EC, CASI-CAM-CM, DAMA)
Contributions
- 11:15 Coffee break
- 11:45 Session 1B: *Applications to Chemistry, Pharmacy and Biology*
Chair: M. H. Hayes (GMU, USA/DS&EC)
Invited lecture: *Bayesian networks in Neuroscience*
P. Larrañaga (UPM/ CASI-CAM-CM)
Contributions

Wednesday, June 15th

- 09:30 Session 2A: *Security and Safety*
Chair: B. Vitoriano (UCM/ CASI-CAM-CM)
Invited lecture: *Differential analysis as a data science tool for cyber security*
J.H. Jones, Jr. (GMU, USA/ DS&EC)
Contributions
- 10:45 Coffee break
- 11:15 Session 2B: *Cognitive Health*
Chair: F. García-Nocetti (UNAM/ DS&EC)
Invited lecture: *The evolution of healthcare: First steps towards cognitive healthcare*
A. Solanas (URV)
Contributions
- 12:30 DS&EC, CASI-CAM-CM, and DAMA open session

Thursday, June 16th

- 10:00 Invited Presentations
International cooperation in Horizon 2020
E. Pelayo-Campillos (Natl. Contact Point ICT-H2020, CDTI)
Spanish international R&D cooperative programs with USA & Latin America
E. Iglesias-Cadarso (Natl. IBEROEKA Coord., CDTI)
- 10:45 Coffee break
- 11:15 Session 3A: *Smart Cities*
Chair: M. Mucientes (USC/ DS&EC, DAMA)
Invited lecture: *A guideline for a public-private partnership on urban big data sharing*
D. Sarasa-Funes (UPM/ Ay. Zaragoza/ aCASI-CAM-CM)
Contributions
- 12:30 Session 3B: *Other Applications*
Chair: J. Dorronsoro (UAM/ CASI-CAM-CM, DAMA)
Contributions

Friday, June 17th

- 10:00 Session 4: *Singular Problems*
Chair: C. Hervás (UCO/ DAMA)
Invited lecture: *Real time data mining: Data mining for the XXI Century*
J. Gama (U. Porto, Portugal)
Contributions
- 12:00 Coffee break
- 12.30 Invited Presentation: *Data Science and Engineering R&D at UNAM and other institutions in Mexico*
F. García-Nocetti (UNAM, México/ DS&EC)
- 13:15 Closing ceremony
D. Pérez-Fernández, Cord. Área Tecnología, SETSI-MINETUR

THE WHOLE PROGRAM IS AVAILABLE AT: www.raing.es/es/actividades/advances-and-applications-data-science-engineering

