CONFERENCE PROGRAMME



1st International Conference on Data Management and Security: Applications in Medicine, Sciences and Engineering



DATA 2013

NOTES TO CHAIRMEN AND PRESENTERS

- Chairmen must be in their respective rooms 10 minutes before the start of their session to meet with the presenting authors.
 - Authors must meet with the Chairman of their session 10 minutes before the start of the session.
- Authors must keep strictly to the time allocated for their presentation to ensure the smooth running of the programme.
- This programme is subject to last-minute alterations, please refer to the conference noticeboard for the most up-to-date information.

7 - 9 May 2013 Elche, Alicante, Spain

Organised by:

University Miguel Hernandez, Elche, Spain Wessex Institute of Technology, UK

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WIT Transactions on Biomedicine and Health WIT Transactions on Information and Communication Technologies

Supported by:

International Journal of Safety and Security Engineering

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Tuesday, 7 May 2013

Page number in proceedings

09.20 O	pening	addre	sses
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Session 1: Coding theorry and cryptograpohy. Applications. Special session organised by V. Herranz (I)

09.40 Review of simulations tools for channel coding
V. Galiano, R. Gandia, V. Herranz & C. Perea 3

10.05 Key agreement protocols for distributed secure multicast over the ring
 J.-J. Climent, J. A. López-Ramos, P. R. Navarro & L. Tortosa
 13

REFRESHMENT BREAK

Session 2: Coding theory and cryptograpohy. Applications. Special session organised by V. Herranz (II)

11.00 The degree of a Boolean function and some algebraic properties of its support

J.-J. Climent, F. J. García & V. Requena

25

11.25 Improving image compression through the use of evolutionary computing algorithms

O. López-Granado, V. Galiano, A. Martí, H. Migallón,

M. Martínez-Rach, P. Piñol & M. P. Malumbres

37

Invited:

11.50 A construction of MDS array codes

S. D. Cardell, J.-J. Climent & V. Requena

47

LUNCH



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Tuesday, 7 May 2013

il
141
155
167
73
105
Oral

END OF DAY 1



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Wednesday, 8 May 2013

Session 5: Applications in medicine (I) Chairman: A. Rabasa

Invited:

09.20 Blood flow simulations in patient-specific coronary bypass grafts

E. S. Bernad, M. Craina & S. I. Bernad

187

09.55 Flow in re-stenosed artery after angioplasty

S. I. Bernad, A. Totorean, E. S. Bernad & R. Susan-Resiga

209

Additional Presentation:

Invited:

10.30 Traffic matrix estimation using the Levenberg-Marquardt

neural network of a large IP system

S. Mekaoui, C. Benhamed & K. Ghoumid

85

REFRESHMENT BREAK

Session 6: Applications in medicine (II)

Chairman: S. Mekaoui

11.35 A medical knowledge management system based on expert tagging (MKMST)

A. Baigorri, J. Villadangos, J. J. Astrain & A. Córdoba

221

12.00 The importance of adequate data pre-processing in early diagnosis: classification of arrhythmias, a case study

classification of armythinas, a case study

A. Rabasa, A. F. Compañ, J. J. Rodríguez-Sala & L. Noguera 233

12.25 Child cancer follow-up ontology and information system

J. A. El-Subaihi, F. Anton, D. Mioc, S. V. Andersen & B. Lausen 127

13.30 Lunch and Technical Visit:

We are organising a guided visit to the Data Processing Centre of Alicante Airport, where members of the technical staff responsible for running the Centre will explain specific aspects of the operation of the communications network and security methods implemented on their databases. This will describe the main data structures and the organization of the different clusters as well as other topics of interest to the participants.

END OF DAY 2 Conference Dinner TBA



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Oral

Thursday, 9 May 2013

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Sessio Chairm	n 7 an: K. Shimano	
09.20	Invited: Data management for an anaesthesiology department optimization A. Rabasa, A. F. Compañ, A. J. Agulló, J. J. Rodríguez-Sala, L. Santamaría & L. Noguera	175
09.55	Invited: Heat transfer analysis in the human abdomen with a focus upon correlation between the amount of visceral fat and skin temperature K. Shimano & Y. Shimano	197
10.20	Optimization methods for system track data securing using digital signatures <i>G. Icriverzi</i>	Oral
	REFRESHMENT BREAK	
	n 8: Data management an: C. Brebbia	
11.15	A novel remote access technical database for the offshore diving industry D. Johnston, T. Henaughen, B. G. Stewart, A. Nesbitt & A. Ahmadinia	97
11.40	Fuzzy logic modelling of a performance evaluation system for academic programmes in Nigeria higher education E. M. Igbape & E. A. Onibere	113
12.05	Processing of large amounts of data on credit scoring example using	

END OF THE CONFERENCE

We hope you have enjoyed the conference and look forward to seeing you at the next meeting in the series, have a safe and pleasant journey home

neural network technology

K. K. Nurlybayeva & G T Balakayeva