



The International Group of e-Systems Research & Applications (TIGERA) Conference provides a forum for scholars, professionals, students, and Government representatives to present their latest findings in e-Learning, e-Business, and e-Government research, applications and the underlying technologies. The submitted contributions address challenging issues of innovative e-Systems modeling, online user behavior, pervasive technologies, service integration, security, and e-Services for users, and organizations.

## TIGERA 2009

<b>Monday, March 16, 2009</b>			
<b>Plenary Room</b>	<b>Room A</b>	<b>Room B</b>	<b>Room C</b>
9:00-10:30 Opening by President of University of El Manar, Tunis Chair: Roy Girasa	9:00-10:30 Go to Plenary Room: Opening Ceremony	9:00-10:30 Go to Plenary Room: Opening Ceremony	9:00-10:30 Go to Plenary Room: Opening Ceremony
10:30-11:00 Coffee Break (You will need a ticket to be admitted)			
11:00-12:30 Closed	11:00-12:30 Session MA2: Chair: Belhassen Zouari <u>IS Security Management</u>	11:00-12:30 Session MB2: Chair: A. Jemai <u>S Performance Research</u>	11:00-12:30 Session MC2: Chair: Hajer Ben Mariem <u>Women in Computing</u>
12:30-2:00 Lunch <u>on your own</u> (You can only eat in the hotel restaurant if you are staying in the hotel today)			
2:00-3:30 Closed	2:00-3:30 Session MA3: Workshop Speaker: B Raggad <u>Security Risk: ALE+</u>	2:00-3:30 Session MB3: Chair: Riadh Robbana Acute Integrity in e- Systems	2:00-3:30 Session MC3: Chair: M Gammoudi <u>IS Services &amp; Appl.</u>
3:30-4:00 pm Coffee Break (You will need a ticket to be admitted)			
4:00-5:30 Keynote Speaker Nozha Boujema	4:00-5:30 Go to Plenary Room: Keynote Speaker	4:00-5:30 Go to Plenary Room: Keynote Speaker	4:00-5:30 Go to Plenary Room: Keynote Speaker
See you tomorrow at 9:00 am sharp			

**Tuesday, March 17, 2009**

<b>Plenary Room</b>	<b>Room A</b>	<b>Room B</b>	<b>Room C</b>
9:00-10:30 Closed	9:00-10:30 Session TA1: Workshop Speaker: C Katar IS Security Standards	9:00-10:30 Session TB1 Chair: Yahia Slimani [Najiba Bellaaj]	9:00-10:30 Session TC1: Chair: E Zagrouba Imagery Applications
10:30-11:00 Coffee Break (You will need a ticket to be admitted)			
11:00-12:30	11:00-12:30 Session TA2 Chair: M. Zaghdoud IS Security Applications	11:00-12:30 Session TB2: Chair: Emilio Collar CRM Research	11:00-12:30 Session TC2 Chair: Riadh Farah Intelligent GIS Applications
12:30-2:00 pm Lunch <u>on your own</u> (You can only eat in the hotel restaurant if you are staying in the hotel today)			
2:00-3:30 Closed	2:00-3:30 pm Session: TA3: Workshop Speaker: H Ben Hmida Security Testing for All	2:00-3:30 pm Session TB3: Chair: Mohamed Aroui Extreme Value Analysis	2:00-3:30 pm Session TC3: Chair: Moncef Temani Multi-agents Applications
3:30-4:00 pm Coffee Break (You will need a ticket to be admitted)			
Keynote Speaker	4:00-5:30 pm Go to Plenary Room: Keynote Speaker	4:00-5:30 pm Go to Plenary Room: Keynote Speaker	4:00-5:30 pm Go to Plenary Room: Keynote Speaker

**Wednesday, March 18, 2009**

<b>Plenary Room</b>	<b>Room A</b>	<b>Room B</b>	<b>Room C</b>
9:00-10:30 Closed	9:00-10:30 Session WA1: Workshop Speaker: James Lawler Publishing Opportunities for IS Students	9:00-10:30 Session WB1: Chair: Sadok Ben Yehia Business Intelligence Research	9:00-10:30 Session WC1: Chair: B G Raggad IS Security Design
10:30-11:00 Coffee Break (You will need a ticket to be admitted)			
11:00-12:30 Closed	11:00-12:30 pm Session WA2: Chair: A Belghith IDS Research	11:00-12:30 pm Session WB2: Chair: Samir Ben Ahmed Computing in SE	11:00-12:30 pm Session WC2: Chair: Roy Girasa IT Governance Standards
12:30-2:00 pm Lunch <u>on your own</u> (You can only eat in the hotel restaurant if you are staying in the hotel today)			
2:00-3:00 pm Closing Ceremony Invited Honorary Chair: Mme Khadija. Ghariani Chair: Roy Girasa ----- Meeting of all session chairs: 3:15-4:15 pm, in Room A			

Monday, March 16, 2009  
11:00 AM – 12:30 PM

**Day: 3/16/09**                      **Room: A**                      **Session#: MA2**                      **Time: 11:00–12:30 am**

Session Title: IS Security Management  
Session Chair: Belhassen Zouari, ANSI, Tunis, Tunisia

Presentation 1: 20 minutes talk + 10 minutes discussion, including overhead  
Title: A distributed approach for detecting and reacting to massive attacks  
Authors: Mohamed Karim Aroua, F des Sciences, Tunisia  
Khaled Barbaria, F des Sciences, Tunisia  
Belhassen Zouari, ANSI, Tunisia

Presentation 2: 20 minutes talk + 10 minutes discussion, including overhead  
Title: Towards a SDFD (Secured Data Flow Diagram): formalization of DFD (Data Flow Diagram) and integration of security features  
Authors: Nadia Soudani, ISI, Tunis, Tunisia  
Bel G Raggad, Seidenberg School of CS & IS, NY, USA  
Belhassen Zouari, ANSI, Tunisia

Presentation 3: 20 minutes talk + 10 minutes discussion, including overhead  
Title: Integrated Fault and Event Analysis for the Design of Incident Response Systems  
Authors: Azza Mastouri, ISG, Tunis, Tunisia  
Bel G Raggad, Seidenberg School of CS & IS, NY, USA  
Belhassen Zouari, ANSI, Tunisia

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**Day: 3/16/09**                      **Room: B**                      **Session#: MB2**                      **Time: 11:00-12:30 pm**

Session Title: System Performance Research  
Session Chair: A. Jemai, INSAT, Tunis, Tunisia

Presentation 1: 20 minutes talk + 10 minutes discussion, including overhead  
Title: Study of key pre-distribution schemes in wireless sensor networks (use of WSNet): case of BROSK  
Authors: Abir Mastouri, INSAT, Tunis, Tunisia  
Marine Minier, INSA, Lyon, France  
Abderrazak Jemai, INSAT, Tunis, Tunisia

Presentation 2: 20 minutes talk + 10 minutes discussion, including overhead  
Title: SDF graph for MPSoC performance evaluation  
Authors: Kamel Smiri, F des Science, Tunis, Tunisia  
Abderrazak Jemai, INSAT, Tunis, Tunisia

Presentation 3: 20 minutes talk + 10 minutes discussion, including overhead  
Title: NGN networks services Case study : Push Email Application  
Authors: Asma Ben Letaifa, SupCom, Ariana, Tunisia  
Sami Tabbane, SupCom, Ariana, Tunisia

**Day: 3/16/09**

**Room: C**

**Session#: MC2**

**Time: 11:00-12:30 pm**

Session Title: Women in Computing  
Session Chair: Hajer Benmeriam, squaretek.com, Tunisia

Presentation 1: 20 minutes talk + 10 minutes discussion, including overhead  
Title: The Importance Of Coaching To Promote And Develop A Business  
Authors: Rym Cassous, coach and teacher at Formaxion

Presentation 2: 20 minutes talk + 10 minutes discussion, including overhead  
Title: BFPME : Tools For Financing Smes And Boost Entrepreneurship In Tunisia  
Authors: Asma Mellouli, engineer and IT expert at BFPME

Presentation 3: 20 minutes talk + 10 minutes discussion, including overhead  
Title: Women Entrepreneurship, A Tunisian Experience  
Authors: Leila Jaber, CEO of Netway BSB

**Monday, March 16, 2009**  
**11:00 AM – 12:30 PM**

**Day: 3/16/09**

**Room: C**

**Session#: MC2**

**Time: 2:00–3:30 pm**

Session Title: IS Services & Applications  
Session Chair: M Gammoudi, ESSAI, Tunis, Tunisia  
[Naoufel Kraiem, ISI, Tunisia]

Presentation 1: 20 minutes talk + 10 minutes discussion, including overhead  
Title: La variabilité au service de l'handicap  
Authors: Sami Ouali, ENSI, U of Mannouba, Tunisia

Presentation 2: 20 minutes talk + 10 minutes discussion, including overhead  
Title: La Conduite Du Changement D'un Système D'information: Principes Et Etat De L'Art  
Authors: Slim Jendoubi , ENSI, U of Mannouba, Tunisia  
Jamil Dimassi, ENSI, U of Mannouba, Tunisia

Presentation 3: 20 minutes talk + 10 minutes discussion, including overhead  
Title: Image mining on medical context: The Ear Nose Throat case  
Authors: Mehdi Louizi , F des Sciences, Tunis, Tunisia

**Day: 3/16/09**

**Room: B**

**Session#: MB3**

**Time: 2:00-3:30 pm**

Session Title: Acute Integrity in e-Systems  
Session Chair: Riadh Robbana, EPT, Tunis, Tunisia

Presentation 1: 20 minutes talk + 10 minutes discussion, including overhead  
Title: Online Matrix Voting System  
Authors: Mehdi Ben Ghorbel, ISI, Tunis, Tunisia  
Abderrazek Boufahja, ISI, Tunis, Tunisia  
Narjes Ben Rajeb, ISI, Tunis, Tunisia  
Riadh Robbana, ISI, Tunis, Tunisia

Presentation 2: 20 minutes talk + 10 minutes discussion, including overhead  
Title: Le Partage de Secret dans les Schémas Non-interactifs d'Horodatage Electronique  
Authors: Assia Ben Shil, F des Sciences, Tunis, Tunisia  
Kaouther Blibech, F des Sciences, Tunis, Tunisia  
Riadh Robbana, F des Sciences, Tunis, Tunisia

Presentation 3: 20 minutes talk + 10 minutes discussion, including overhead  
Title: Synchronization of the static and dynamic views in real-time systems modeling  
Authors: Najet Zoubeir , ISI, Tunis, Tunisia  
Adel Khalfallah, ISI, Tunis, Tunisia



**Tuesday, March 17, 2009**  
**11:00 AM – 12:30 PM**

**Day: 3/17/09                      Room: A                      Session#: TA2                      Time: 11:00-12:30 pm**

Session Title: IS Security Applications  
Session Chair: M. Zaghdoud, ISIK, Kef, Tunisia

Presentation 1: 20 minutes talk + 10 minutes discussion, including overhead  
Title: Planification par la méthode PIPO  
D'une Stratégie de Sécurité des Systèmes d'Information aux sein des RLEs  
Authors: Najet Telmoudi, ISTMT, Tunisia  
Souad Chebbi, ESSTT, Tunisia  
Mohamed Annabi, ESSTT, Tunisia

Presentation 2: 20 minutes talk + 10 minutes discussion, including overhead  
Title: A Code Analyzer For H.264 Encoder On A VLIW Processor  
Authors: Sonia Guerbouj, EPM, Marsa, Tunisia  
Abderrazek Jemai, INSAT, Tunis, Tunisia

Presentation 3: 20 minutes talk + 10 minutes discussion, including overhead  
Title: Etude comparative des mesures de consistance géométrique pour la recherche des images basée sur les descripteurs locaux SIFT  
Authors: Asma Najjar : ISI, Tunis, Tunisia  
Ezzeddine Zagrouba, ISI, Tunis, Tunisia  
Alexis Joli, INRIA, Paris, France  
Nozha Boujemma, INRIA, Paris, France

**Day: 3/17/09                      Room: B                      Session#: TB2                      Time: 11:00–12:30 pm**

Session Title: CRM Research  
Session Chair: Emilio Collar, West CT State U, CT, USA

Presentation 1: 20 minutes talk + 10 minutes discussion, including overhead  
Title: Devising Actionable Strategy under CRM Nonspecificity  
Authors: Bel G. Raggad, Seidenberg School of CS & IS, NY, USA  
Nadia Mesghouni, ISI, Tunis, Tunisia

Presentation 2: 20 minutes talk + 10 minutes discussion, including overhead  
Title: CRM evolution in Tunisia  
Authors: Manal Mastoura, U of Jendouba, Jendouba, Tunisia  
Bel G Raggad, Seidenberg School of CS & IS, NY, USA

Presentation 3: 20 minutes talk + 10 minutes discussion, including overhead  
Title: A statistical outliers rejection approach proposal for the 3D alignment problem  
Authors: Mohamed Amine Jallouli, ISI, Tunis, Tunisia  
Ezzeddine Zagrouba, ISI, Tunis, Tunisia  
Narjes Doggaz, ISI, Tunis, Tunisia

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**Day: 3/17/09**

**Room: C**

**Session#: TC2**

**Time: 11:00-12:30 pm**

Session Title: Intelligent GIS Applications  
Session Chair: Chair: Riadh Farah, F des Sciences et Gestion, Jendouba, Tunisia

Presentation 1: 20 minutes talk + 10 minutes discussion, including overhead  
Title: Temporal Satellite Image Mining for Modeling Land Cover Changes  
Authors: K. Saheb Etabaâ, ENSI, Mannouba, Tunisia  
I. R. Farah, ENSI, Mannouba, Tunisia  
B. Solaiman, ENSI, Mannouba, Tunisia  
H. B. Ghzala, ENSI, Mannouba, Tunisia

Presentation 2: 20 minutes talk + 10 minutes discussion, including overhead  
Title: Démixage spectral pour la fusion de données multi-sources : Application à la cartographie de l'érodibilité potentielle du sol en zone aride au sud tunisien  
Authors: Z. B. Rabah, ENSI, Mannouba, Tunisia  
I. R. Farah, ENSI, Mannouba, Tunisia  
B. Solaiman, ENSI, Mannouba, Tunisia  
H. B. Ghezala, ENSI, Mannouba, Tunisia

Presentation 3: 20 minutes talk + 10 minutes discussion, including overhead  
Title: Spatio-Temporal Method For Blotch Detection  
Authors: Heyfa Ammar-Badri, SupCom, Ariana, Tunisia  
Amel Benazza-Benyahia, SupCom, Ariana, Tunisia

**Tuesday, March 17, 2009**  
**11:00 AM – 12:30 PM**

**Day: 3/17/09                                      Room: A                                      Session#: TB3                                      Time: 2:00–3:30 pm**

Session Title:                                      Mohamed Aroui  
Session Chair:                                      General Computing and Extreme Value Analysis

Presentation 1:                                      20 minutes talk + 10 minutes discussion, including overhead  
Title:    Value at Risk for risk management:  
    A Survey  
Authors:    Zahraa Raggad, ESI, Mannouba, Tunisia

Presentation 2:                                      20 minutes talk + 10 minutes discussion, including overhead  
Title:    Value at Risk methodology for Information  
    Security: Pitfalls and opportunities  
Authors:    Bechir Raggad, FSEG, Tunis, Tunisia

Presentation 3:                                      20 minutes talk + 10 minutes discussion, including overhead  
Title:    A New Apodization Function for Flattened Dispersion Tunable FBG Filter  
Authors:    Moez Ferchichi, ENIT, Tunis, Tunisia  
    Monia Najjar, ENIT, Tunis, Tunisia  
    Houria Rezig, ENIT, Tunis, Tunisia

**Day: 3/17/09                                      Room: C                                      Session#: TC3                                      Time: 2:00-3:30 pm**

Session Title:                                      Multi-agents Applications  
Session Chair:                                      Moncef Temani, ISI, Tunis, Tunisia

Presentation 1:                                      20 minutes talk + 10 minutes discussion, including overhead  
Title:    Une approche de tutorat virtuel à l'aide d'un SMDF multi-agents dans une plateforme de e-learning  
Authors:    Mohamed Tahar Ileh, Université Paris 8, Saint-Denis, France  
    Imad Saleh, Université Paris 8, Saint-Denis, France  
    Moncef Temani, ISI, Tunis, Tunisia

Presentation 2:                                      20 minutes talk + 10 minutes discussion, including overhead  
Title:    The concept of intellectual agents for synthesis of structure models on management of assemblies and robotized  
    complexes in the energy and industry sectors  
Authors:    Moncef Temani, ISI, Tunis, Tunisia  
    Gabsi Mounir, Lviv Polytechnic National University, Ukraine  
    Rekik Ali, Lviv Polytechnic National University, Ukraine  
    Sikora L.S, Lviv Polytechnic National University, Ukraine

Presentation 3:                                      20 minutes talk + 10 minutes discussion, including overhead  
Title:    A summarized tutorial on text-independent speaker recognition  
Authors:    Alya Slimene, ISI, Tunis, Tunisia  
    Dorra Ben Ayed, ISI, Tunis, Tunisia

**Wednesday, March 18, 2009**  
**9:00 AM – 10:30 AM**

**Day: 3/18/09**                      **Room: B**                      **Session#: WB1**                      **Time: 9:00–10:30 am**

Session Title:                      Business Intelligence Research  
Session Chair:                      Sadok Ben Yehia, Fac. des Sciences, Tunis, Tunisia

Presentation 1:                      20 minutes talk + 10 minutes discussion, including overhead  
Title:                                      A novel approach for mining association rules from uncertain data  
Authors:                              M.H. Farhat, F des Sciences, Tunis, Tunisia  
    A. Laurent, LIRMM, Montpellier, France  
    S. Ben Yahia, F des Sciences, Tunis, Tunisia

Presentation 2:                      20 minutes talk + 10 minutes discussion, including overhead  
Title:                                      A Novel Approach For Privacy Mining Of Generic Basic Of Association Rules  
Authors:                              M. Waddey, F des Sciences, Tunis, Tunisia  
    P. Poncelet, LIRMM, Montpellier, France  
    S. Ben Yahia, F des Sciences, Tunis, Tunisia

Presentation 3:                      20 minutes talk + 10 minutes discussion, including overhead  
Title:                                      The Determinants Of Satisfaction Of The Tunisian Companies  
    Towards An Informational Web Portal  
Authors:                              Mme Manel Belhaj Youssef, U of Jendouba, Jendouba, Tunisia  
    Jamel eddine Gharbi, U of Jendouba, Jendouba, Tunisia

**Day: 3/18/09**                      **Room: C**                      **Session#: WC1**                      **Time: 9:00-10:30 am**

Session Title:                      IS Security Design  
Session Chair:                      B G Raggad, Seidenbberg School of CS & IS, NY, USA

Presentation 1:                      20 minutes talk + 10 minutes discussion, including overhead  
Title:                                      Bayesian IDS  
Authors:                              Chaker Katar, ISG, Tunis, Tunisia  
    B G Raggad, Seidenbberg School of CS & IS, NY, USA

Presentation 2:                      20 minutes talk + 10 minutes discussion, including overhead  
Title:                                      Using Specifying Evidence Theory for a Best Response of an IDS  
Authors:                              Med Said Seddiki, SupCom, Ariana, Tunisia  
    Sihem Guemara, SupCom, Ariana, Tunisia

Presentation 3:                      20 minutes talk + 10 minutes discussion, including overhead  
Title:                                      Modeling nonspecificity in incident response systems  
Authors:                              B G Raggad, Seidenbberg School of CS & IS, NY, USA

**Day: 3/18/09**

**Room: B**

**Session#: WB2**

**Time: 11:00-12:30 pm**

Session Title: Computing in Software Engineering  
Session Chair: Samir Ben Ahmed, INSAT, Tunis, Tunisia  
[Adel Khalfallah, ISI, Tunis, Tunisia]

Presentation 1: 20 minutes talk + 10 minutes discussion, including overhead  
Title: A Model Driven Approach for Architectural Styles Representation  
Authors: Hajer Berhouma, F des Sciences, Tunis, Tunisia  
Adel Khalfallah, F des Sciences, Tunis, Tunisia  
Samir Ben Ahmed, INSAT, Tunis, Tunisia

Presentation 2: 20 minutes talk + 10 minutes discussion, including overhead  
Title: Web Site Quality and Satisfaction: The Moderator Role of Flow  
Authors: Zeineb Fadhlou, U of Jendouba, Jendouba, Tunisia  
Jamel-Eddine Gharbi, U of Jendouba, Jendouba, Tunisia  
Manel Khadraoui, U of Jendouba, Jendouba, Tunisia

Presentation 3: 20 minutes talk + 10 minutes discussion, including overhead  
Title: The software system for MODELLING gas-dynamic parameters OF THE opencast atmosphere  
Authors: Rekik Ali, Lviv Polytechnic National University, Ukraine

**Day: 3/18/09**

**Room: C**

**Session#: WC2**

**Time: 11:00-12:30 pm**

Session Title: Network Performance and Stability

Session Chair: Kamel Barkaoui, CNAM, France

Presentation 1: 20 minutes talk + 10 minutes discussion, including overhead

Title: Modelling and Analysis of Workflow Processes  
Timing Constrained Petri Nets

Authors: Zohra Sba'i, ENIT, Tunis, Tunisia  
Rahma Ben Ayed, ENIT, Tunis, Tunisia  
Kamel Barkaoui, CNAM, France

Presentation 2: 20 minutes talk + 10 minutes discussion, including overhead

Title: Pertinent Information retrieval based on Possibilistic Bayesian  
networks: origin and possibilistic perspective

Authors: Kamel Garrouch, ISSAT, Sousse, Tunisia  
Mohamed Nazih Omri, FSM, Monastir, Tunisia  
Bachir el Ayeb, FSM, Monastir, Tunisia

Presentation 3: 20 minutes talk + 10 minutes discussion, including overhead

Title: Community Service, Social Enterprise and Information Systems Technology

Authors: James Lawler, Seidenberg School, Pace U, NY, USA

**Day: 3/18/09**

**Room: A**

**Session#: WA2**

**Time: 11:00-12:30 pm**

Session Title: IDS and High Availability  
Session Chair: Abdelfettah Belghith, ENSI, U of Mannouba, Mannouba, Tunisia

Presentation 1: 20 minutes talk + 10 minutes discussion, including overhead  
Title: Design of a TCP-IDS interoperability : Solution for IDS operation enhancement and TCP congestion control efficiency  
Authors: Ilhem Lengeliz, ENSI, U of Mannouba, Mannouba, Tunisia  
Samira Chouikhi, ENSI, U of Mannouba, Mannouba, Tunisia  
Abdelfettah Belghith, ENSI, U of Mannouba, Mannouba, Tunisia

Presentation 2: 20 minutes talk + 10 minutes discussion, including overhead  
Title: Optimizing Proxy Server Bandwidth In Local Vod Distribution  
Authors: Achraf Gazdar, ENSI, Mannouba U, Tunisia  
Abdelfettah Belghith, ENSI, Mannouba U, Tunisia

Presentation 3: 20 minutes talk + 10 minutes discussion, including overhead  
Title: Combination Of Deterministic And Probabilistic Wind Farm Production Forecasting Basing On The Ann  
Authors: Bouzidi Lotfi, ENIT, Tunis, Tunisia  
Mrabet Bellaaj Najiba, ISI, Tunis, Tunisia  
Elleuch Mohamed, ENIT, Tunis, Tunisia