Rapid Response Institute

PAPERS PUBLISHED
I. RESEARCH PAPERS PUBLISHED

1. “An Intuitive Formal Approach to Dynamic Workflow Modeling and Analysis”

   Jiacun Wang; Daniela Rosca; William Tepfenhart; Allen Milewski; and Michael Stoute

   September 5 – 8, 2005
   Nancy, France

   (The conference selected 25 full papers from 190 submissions.)

   Approved for release by ECBC.

2. “Interaction Design Principles for the Bioterror Incident Management Environment”

   Allen E. Milewski

   Proceedings: IASTED Conference on Human-Computer Interaction
   November 14 – 16, 2005
   Phoenix, Arizona, USA

   Approved for release by ECBC.


   Allen E. Milewski; Robert M. Kelly; Jiacun Wang; and Lauren Landrigan.

   Workshop on Information Visualization and Interaction Techniques for Collaboration across
   Multiple Displays
   ACM/Computer-Human Interaction SIG (CHI)
   Montreal, CA
   April 22-27, 2006

   Approved for release by ECBC.

Michael Stoute; Jiacun Wang, IEEE Senior Member; Daniela Rosca; William Tepfenhart; Allen Milewski

(This was previously entitled: Incident Command System Workflow Modeling and Validation Tool Development and was submitted to ECBC for Release Approval on Oct. 3, 2005, under this name. The title was changed last minute, per Jiacun Wang.)

Proceedings: IEEE International Conference on Networking, Sensing and Control
April 23 – 25, 2006
Fort Lauderdale, Florida, USA

Approved for release by ECBC.

5. “Incident Command System Workflow Modeling and Analysis: A Case Study”

Jiacun Wang; Daniela Rosca; William Tepfenhart; and Allen Milewski

May 14 – 17, 2006
Newark, New Jersey

Approved for release by ECBC.


Jiacun Wang and Daniela Rosca

Submitted in early December, 2005, to (CAiSE’06) 18th Conference on Advanced Information System Engineering 2006
Luxembourg
June, 2006

(Committee accepted 33 papers out of 189 submissions.)
Proceedings: International Conference on Advanced Information Systems Engineering

Luxembourg
June 5 - 9, 2006

Previously released information and general knowledge.

Lauren C. Landrigan; Allen E. Milewski; Robert M. Kelly; and Jiacun Wang

October 8 – 22, 2006
The Grand Hotel
Taipei, Taiwan

Approved for release by ECBC.

8. “EPC Workflow Model to WIFA Model Conversion”

Anni Tsai; Jiacun Wang; William Tepfenhart; and Daniela Rosca

October 8, 2006
Taipei, Taiwan

Approved for release by ECBC.


Paul J. Lioy, Ph.D.; Fred S. Roberts, Ph.D.; Brendan McCluskey, JD, MPA; Mary Jean Lioy, MS; Audrey Cross, Ph.D., JD; Lee Clarke, Ph.D.; Lee Louise Stanton, JD; William Tepfenhart, Ph.D.; Mary Ellen Ferrara, MS.

Journal of Emergency Management
470 Boston Post Road
Weston, MA 02493

Vol. 4, No. 6
November/December 2006

Jiacun Wang, Anni Tsai, and Daniela Rosca

2007 Chemical Biological Information Systems (CBIS) Conference and Exhibition
Renaissance Austin Hotel
Austin, Texas
January 8 – 11, 2007

11. “Use of a Markov Chain Model for Epidemics”

William M. Tepfenhart, Karen DeMarco

2007 Chemical Biological Information Systems (CBIS) Conference and Exhibition
Renaissance Austin Hotel
Austin, Texas
January 8 – 11, 2007

12. “Innovative Emergency Response Information Technology Applications: Civilian to Military Crossover Opportunities”

Robert M. Kelly, Jr. and Allen E. Milewski

Poster Presentation

2007 Chemical Biological Information Systems (CBIS) Conference and Exhibition
Renaissance Austin Hotel
Austin, Texas
January 8 – 11, 2007


Bill Tepfenhart; Jiacun Wang; Daniela Rosca; and Anni Tsai

*International Journal of Intelligent Control and Systems*
Vol. 12, No. 1
March, 2007

*Previously released information and general knowledge.*

Daniela Rosca and Jiacun Wang

_Proceedings: IEEE International Conference on Networking, Sensing and Control_  
London, UK

April 14 – 17, 2007

_Previously released information and general knowledge._


Lauren Landrigan; Allen E. Milewski; Robert Bekefi

_Proceedings: 4th International ISCRAM Conference_  
Delft, the Netherlands

May 13 – 16, 2007

_Approved for release by ECBC._

16. “Low Cost Tabletop Displays in an Emergency Operations Center”

Lauren C. Landrigan and Allen E. Milewski

5th IEEE International Conference on Intelligence and Security Informatics  
(IEEE ISI-2007)

Rutgers University  
New Brunswick, New Jersey USA

May 23 – 24, 2007

_Approved for release by ECBC._

Lauren C. Landrigan; Allen Milewski; Robert Bekefi

IEEE International Conference on Systems, Nan, and Cybernetics
Montreal, Canada
2007

18. “Resource-Constrained Workflow Modeling”

Jiacun Wang; William Tepfenhart; Daniela Rosca; and Anni Tsai

Proceedings: IEEE & IFIP International Symposium on Theoretical Aspects of Software Engineering
Shanghai, China
June 6 – 8, 2007


Jiacun Wang; William Tepfenhart; Daniela Rosca

Proceedings: IEEE International Conference on Networking, Sensing and Control
Sanya, China
2008


Jiacun Wang; Daniela Rosca; William Tepfenhart; Allen Milewski; Michael Stoute

September 2008.

Allen Milewski; Robert Kelly

Chemical and Biological Defense Physical Science and Technology (CBD PS&T) Conference

New Orleans, Louisiana USA

November 17 – 21, 2008

Accepted for Publication.


J. Wang, W. Tepfenhart, and D. Rosca

IEEE Transactions on Systems, Man and Cybernetics


23. Agent Based Emergency Response Workflow Management”

William Tepfenhart, Member, IEEE, Jiacun Wang, Senior Member, IEEE and Daniela Rosca

March 1, 2009

24. “RFID-Based Innovative Emergency Response Information Technology Applications”

Robert M. Kelly, Jr.

NDIA 10th Annual Science & Engineering Technology Conference/DoD Tech Expo
Embassy Suites Convention Center
North Charleston, SC

April 21 – 23, 2009

Guardascione, M. and Milewski, A.E.

Paper accepted for the 7th International Conference on Information Systems for Crisis Response and Management, Seattle, WA

May, 2010

26. “WIFAI - A Tool Suite for the Modeling and Enactment of Inter-organizational Workflows”

Michael Tarullo, Daniela Rosca, Jiacun Wang, Senior Member, IEEE and William Tepfenhart

27. “Real-Time Workflow Modeling and Analysis in Emergency Response”

Jiacun Wang and William Tepfenhart

Paper accepted to present at:


Las Vegas, Nevada

July 12 – 15, 2010, USA

Previously released information and general knowledge.
II. RESEARCH PRESENTATIONS

1. “Information Assurance and Integration – the Need to Manage Information for Prevention, Response, Recovery and Mitigation”

Dr. William Tepfenhart, Chief Technologist, CRRDS, Monmouth University


Statewide Symposium on Homeland Security
NJ Universities Consortium on Homeland Security
Water Terrorism Panel
Paul Robeson Campus Center
Rutgers
Newark, New Jersey

October 12, 2004

Previously released information and general knowledge.

2. “Technology Challenges in Developing a Rapid Response Database System”

Dr. Barbara T. Reagor and Dr. William Tepfenhart, Monmouth University; Ms. Karen DeMarco, Monmouth County Health Department; Dr. Soos, RDECOM


AFCEA
Professional Development Seminar
Fort Monmouth
February 24, 2005

Previously released information and general knowledge.
3. “Developing Disease Surveillance Systems in New Jersey”

Dr. Barbara T. Reagor and Dr. William Tepfenhart, Monmouth University; Other Panel Members

Second Information Exchange (ITE) Conference
Mercer County College – NJ Office of Information Technology (NJ-OIT)
March 9, 2005

*Previously released information and general knowledge.*


William Tepfenhart, Ph.D., Chief Technology Officer, Center for Rapid Response Database Systems, and Associate Professor, Monmouth University Software Engineering Department

Panel: Chemical and Biological Preparedness

4th Statewide Symposium on Homeland Security
Monmouth University
West Long Branch, New Jersey

May 23, 2005

*Previously released information and general knowledge.*

5. “Dynamic Workflow Modeling and Verification”

Jiacun Wang

Nanjing University
Nanjing, China

June 2005

Jiacun Wang

Joint Seminar of IEEE North Jersey Section and New Jersey Institute of Technology

October 2005

7. “Systems Engineering at the Global Level”

William Tepfenhart, Ph.D., Director of Graduate Studies – Software Engineer and CTO for CRRDS, Monmouth University


5th Statewide Symposium on Homeland Security
University Consortium for Homeland Security Symposium
NJ Institute of Technology
Newark, New Jersey

November 29, 2005

Previously released information and general knowledge.

8. “Decentralized Trust Management Based on the Reputation of Information Sources”

Meng Yu, Wanyu Zang

7th Statewide Symposium
NJ Universities Consortium on Homeland Security
Rutgers University
Multipurpose Room of Busch Campus Center

Symposium Theme: All Hazards Preparation

November 20, 2006

Jiacun Wang

Nanjing University of Engineering
Nanjing, China

June 2007

10. Poster Presentation – Map Table: “The Effectiveness of Low Cost Interactive Tabletop Displays in an Emergency Operations Center”

Lauren C. Landrigan, Allen Milewski, Robert Bekefi

Poster Presentation –
Meetings of TableTop “07 Conference on Interactive TableTop Interfaces
2nd IEEE TableTop Workshop
Newport, Rhode Island

October 10 – 12, 2007


Lauren Landrigan; Allen Milewski; Robert Bekefi

New Jersey Technology Council: 3rd Mid Atlantic Defense/Homeland Security Showcase
Princeton, New Jersey

June 19, 2008

12. “Emergency Response and Management”

Jiacun Wang

Guangdong Industrial University
Guangzhou, China
April 12, 2008
13. “Communicating Decisions When There is No One To Talk To”

Barbara T. Reagor; James M. Hammill

Poster Presentation
Chemical and Biological Defense Physical Science and Technology (CBD PS & T) Conference
New Orleans, Louisiana

November 17 – 21, 2008

14. Poster Presentation – “Determining Credible Sources During an Emergency Situation”

Landrigan, L.C., Milewski, A.E. and Baker, J

Paper accepted for the 7th International Conference on Information Systems for Crisis Response and Management,
Seattle, WA

May, 2010
III. MASTERS’ THESES

1. “Computational Analysis of Stochastic Epidemic Model”
   
   By: Gaureesh Agnihotri
   
   Master’s Thesis Submitted to Dr. William M. Tepfenhart towards partial fulfillment of the requirements of the Master of Science in Software Engineering at Monmouth University, West Long Branch, NJ 07764-1898
   
   November 21, 2005

2. “Workflow Management Tool Support for Incident Command Systems”
   
   By: Michael Jason Stoute
   
   A thesis presented to Monmouth University in partial fulfillment of the requirements for the degree of Master of Science in Software Engineering; Monmouth University
   
   December, 2005

   
   By: Lauren Landrigan
   
   Master’s Thesis
   
   December 21, 2006
4. “Modeling and Enacting Inter-Organizational Workflows”

By: Michael Tarullo

A thesis presented to Monmouth University in partial fulfillment of the requirements for the degree of Master of Science in Software Engineering.

May 2007

5. “Resource-Constrained and Decision Support Workflow Modeling and Tool Development”

By: Anni Tsai

A thesis presented to Monmouth University in partial fulfillment of the requirements for the degree of Master of Science in Software Engineering.

May 2007

6. “Single Sign-On Implementation and Interoperability Interface to Inter-Organizational Workflows”

By: Robert Monto

A thesis presented to Monmouth University in partial fulfillment of the requirements for the degree of Master of Science in Software Engineering.

May, 2008


By: Matthew Vidovich

A thesis presented to Monmouth University in partial fulfillment of the requirements for the degree of Master of Science in Software Engineering.

May, 2008