Florin Popentiu - DTU Orbit (18/02/2018)

Florin Popentiu

Organisations

**Department of Informatics and Mathematical Modeling**
17/06/2005 → 11/05/2015 Former
popentiu@imm.dtu.dk
VIP

**Department of Applied Mathematics and Computer Science**
28/12/2012 → present
popen@dtu.dk
VIP

Publications:

**Designing a reliable protocol for web services based robots interconnection**

**General information**
State: Published
Organisations: Mathematical Statistics, Department of Informatics and Mathematical Modeling
Authors: Madsen, H. (Intern), Albu, R. (Ekstern), Popentiu, F. (Intern), Țarcă, R. C. (Ekstern), Grigore, A. (Intern)
Pages: 435-436
Publication date: 2012

**Host publication information**
Title of host publication: Advances in Safety, Reliability and Risk Management : Proceedings Of The European Safety And Reliability Conference, Esrel 2011, Troyes, France, 18–22 September 2011
Place of publication: London
Publisher: Taylor & Francis
Editors: Bérenguer, C., Grall, A., Guedes Soares, C.
Main Research Area: Technical/natural sciences
Source: orbit
Source-ID: 318955
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

**Web server's reliability improvements using recurrent neural networks**
In this paper we describe an interesting approach to error prediction illustrated by experimental results. The application consists of monitoring the activity for the web servers in order to collect the specific data. Predicting an error with severe consequences for the performance of a server (the result of which is that its functionality becomes totally inaccessible or hard to access for clients) requires measuring the capacity of a server at any given time. This measurement is highly complex, if not impossible. There are several variables which we can measure on a running system, such as: CPU usage, network usage and memory usage. We collect different data sets from monitoring the web server's activity and for each one we predict the server's reliability with the proposed recurrent neural network. © 2012 Taylor & Francis Group

**General information**
State: Published
Organisations: Mathematical Statistics, Department of Informatics and Mathematical Modeling
Authors: Madsen, H. (Intern), Albu, R. (Ekstern), Felea, I. (Ekstern), Grigore, A. (Intern), Popentiu, F. (Intern), Țarcă, R. C. (Ekstern)
Pages: 441-444
Publication date: 2012

**Host publication information**
Title of host publication: Advances in Safety, Reliability and Risk Management : Proceedings Of The European Safety And Reliability Conference, Esrel 2011, Troyes, France, 18–22 September 2011
Place of publication: London
Publisher: Taylor & Francis
Editors: Bérenguer, C., Grall, A., Guedes Soares, C.
Main Research Area: Technical/natural sciences
Computer Aided Statistical Modelling fights Pollution

General information
State: Published
Organisations: Mathematical Statistics, Department of Informatics and Mathematical Modeling
Authors: Madsen, H. (Intern), Thyregod, P. (Intern), Popentiu, F. (Intern), Grigore, A. (Intern)
Publication date: 2005

Publication information
Original language: English
Main Research Area: Technical/natural sciences
Links:
http://www.scientific-computing.com

Considerations Concerning a Fuzzy-Genetic Algorithm with Application to CEM I Type Cements Quality Optimization

General information
State: Published
Organisations: Mathematical Statistics, Department of Informatics and Mathematical Modeling
Pages: 350-353
Publication date: 2005

Host publication information
Title of host publication: Proceedings of the 9th World Multi-Conference on Systemics, Cybernetics and Informatics, Orlando
Main Research Area: Technical/natural sciences
Conference: 9th World Multi-Conference on Systemics, Cybernetics and Informatics, Orlando, 01/01/2005
Source: orbit
Source-ID: 185712
Publication: Research - peer-review › Report – Annual report year: 2005

On Using Soft Computing Techniques in Software Reliability Engineering

General information
State: Published
Organisations: Mathematical Statistics, Department of Informatics and Mathematical Modeling
Authors: Madsen, H. (Intern), Thyregod, P. (Intern), Burtschy, B. (Ekstern), Popentiu, F. (Intern), Albeanu, G. (Ekstern)
Pages: 1317-1323
Publication date: 2005

Host publication information
Title of host publication: Advances in Safety and Reliability, ESREL 2005
Publisher: Taylor and Francis Group
Main Research Area: Technical/natural sciences
Conference: European Safety and Reliability Conference, Tri City, Poland, 27/06/2005 - 27/06/2005
Source: orbit
Source-ID: 185714
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

A Decision Support System for Pollution Control in Cement Plants,

General information
State: Published
Organisations: Mathematical Statistics, Department of Informatics and Mathematical Modeling
Computer Aided Modeling and Pollution Control in Cement Plants

General information
State: Published
Organisations: Mathematical Statistics, Department of Informatics and Mathematical Modeling
Authors: Madsen, H. (Intern), Thyregod, P. (Intern), Popentiu, F. (Intern), Grigore, A. (Intern)
Publication date: 2004

Host publication information
Title of host publication: Fourth Annual Meeting of ENBIS
Main Research Area: Technical/natural sciences
Conference: Fourth Annual Meeting of ENBIS, 01/01/2004
Source: orbit
Source-ID: 154637
Publication: Research - peer-review › Article in proceedings – Annual report year: 2004

Total quality for software engineering management

General information
State: Published
Organisations: Department of Informatics and Mathematical Modeling
Authors: Albeanu, G. (Ekstern), Popentiu, F. (Intern)
Number of pages: 663
Pages: 567-582
Publication date: 2003

Host publication information
Title of host publication: Handbook of Reliability Engineering
Publisher: Springer
ISBN (Print): 1-8523-3453-3
Main Research Area: Technical/natural sciences
Source: orbit
Source-ID: 58591
Publication: Research - peer-review › Book chapter – Annual report year: 2003

Software architecture for distributed systems (SADS): NN and EV approaches

General information
State: Published
Organisations: Department of Informatics and Mathematical Modeling
Authors: Popentiu, F. (Intern), Albeanu, G. (Ekstern), Sens, P. (Ekstern), Thyregod, P. (Intern)
Publication date: 2001

Host publication information
Title of host publication: European Safety and Reliability Conference (ESREL 2001) sept.
Main Research Area: Technical/natural sciences
Source: orbit
Source-ID: 57873
Publication: Research - peer-review › Article in proceedings – Annual report year: 2001
Projects:

**System-Level Design to Support Early Design Stages and Evolvable Development of Embedded Systems**

Technical University of Denmark
Period: 15/12/2009 → 26/05/2014
Number of participants: 6
Phd Student:
  Gan, Junhe (Intern)
Supervisor:
  Madsen, Jan (Intern)
Main Supervisor:
  Pop, Paul (Intern)
Examiner:
  Nannarelli, Alberto (Intern)
  Curescu, Calin (Ekstern)
  Popentiu, Florin (Intern)

**Financing sources**
Source: Internal funding (public)
Name of research programme: 1/3 FUU, 1/3 inst 1/3 Andet
Project: PhD