



السيرة الذاتية للدكتور علي عبدالله الروضان
أستاذ مشارك في علم الحاسوب
(التعلم الآلي و التنقيب عن البيانات)

- مدير مركز الحاسوب - الجامعة الاردنية 2014/9 – 2016\8
- رئيس قسم تكنولوجيا معلومات الاعمال – كلية الملك عبدالله الثاني لتكنولوجيا المعلومات 2013\9 – 2014\9.
- مندوب الجامعة الاردنية لعضوية اللجنة الفنية الاستشارية في شبكة الجامعات الاردنية 2014\9 – 2016\9.
- ممثل كلية الملك عبدالله الثاني لتكنولوجيا المعلومات في مجلس الجامعة الاردنية 2014\9 – 2015\9.
- عضو في العديد من لجان الاعتماد العام و الخاص في هيئة اعتماد مؤسسات التعليم العالي 2013\9 - الان.
- عضو لجنة متابعة موقع الجامعة الاردنية الالكترونية 2014\9 - 2016\9.
- عضو لجنة اصدار النشرة الالكترونية الشهرية لخبار الجامعة الاردنية 2014\9 - 2016\9.
- عضو اللجنة العليا للكتاب السنوي في الجامعة الاردنية 2014\9 - 2016\9.
- عضو لجنة حوسبة متطلبات الجامعة الاجبارية و الاختيارية 2015.
- عضو اللجنة التحضيرية لملتقى خريجي الجامعة الاردنية 2015.
- عضو مجلس كلية، قسم تكنولوجيا معلومات الاعمال 2013-2014 .
- عضو لجنة الدكتوراة في علم الحاسوب – كلية الملك عبدالله الثاني لتكنولوجيا المعلومات من 2013\9 – 2014\9.
- عضو لجنة البحث العلمي لكلية الملك عبدالله الثاني لتكنولوجيا المعلومات من 2012\9 – 2014\9.
- عضو لجنة الدراسات العليا لكلية الملك عبدالله الثاني لتكنولوجيا المعلومات من 2013\9 – 2014\9.
- عضو لجنة الخطة الدراسية لكلية الملك عبدالله الثاني لتكنولوجيا المعلومات من 2013\9 – 2014\9.
- عضولجنة الاشراف على انتخابات الطلبة ، الجامعة الاردنية.
- عضو لجنة التعليم الإلكتروني. – كلية الملك عبدالله الثاني لتكنولوجيا المعلومات، الجامعة الاردنية.
- الاستحداث و الاعتماد العام و الخاص لبرنامج ماجستير ذكاء الشبكة (Web Intelligence) في قسم تكنولوجيا معلومات الاعمال خلال فترة رئاستي للقسم – كلية الملك عبدالله الثاني لتكنولوجيا المعلومات 2014/2.
- عضو مشارك عن الجامعة الاردنية في مشروع “Master in Health Informatics”, HEAL+, Erasmus+ Project 2015.
- محرر لكتاب في Springer, ومؤلف لعدد من الفصول في Springer books
- عضو لجنة اعداد و اشراف لعدد من المؤتمرات المحلية و الدولية في مجال التعلم الآلي و التنقيب عن البيانات و النشر الإلكتروني.
- المشاركة في 10 مؤتمرات دولية كمؤلف.
- محكم في العديد من مجلات الفئة الاولى JCR ISI with high impact factor

مرفق السيرة الذاتية المفصلة باللغة الانجليزية

Ali Rodan, MIEEE

Personal

Address	Business Information Technology (BIT) department. KASIT, The University of Jordan, P.O.BOX 11942, Amman, Jordan	Nationality	Jordanian
Contact	Mobile : +96279 7335203 +962776666766	Emails	A.Rodan@ju.edu.jo AliRodan@gmail.com
Status	Married	Google scholar profile:	http://scholar.google.com/citations?user=n8Z3RMwAAAAJ&hl=en

Education

2008 – 2012	The University of Birmingham PhD in Computer Science <i>Thesis Title: Architectural Designs of Echo State Network.</i> <i>with Prof. Peter Tino</i>	Birmingham, UK
2004 – 2005	Oxford Brookes University Master in Computer Science (MSc.) <i>Dissertation: Secure Electronic Cash Systems using Web Service Technology</i> <i>with Dr. Catherine Hobbs</i>	Oxford, UK
2000 – 2004	Princess Sumaya University for Technology BSc degree in Computer Science <i>Project: E-Learning Tool and Online Test Examination Using ASP.Net</i> <i>with Prof. Walid Salameh</i>	Amman, Jordan
1999 – 2000	Al-Ittihad Private High Schools High School Certificate (Tawjeehi), Scientific Stream	Amman, Jordan

Research Interest

Reservoir Computing, Recurrent Neural Networks, Machine Learning, Data Mining, and Business Intelligence.

Employment and Experience

- **Associate Professor, King Abdullah II School for Information Technology, The University of Jordan, Amman, Jordan**
12th Aug, 2016 – present.
- **Assistant Professor, King Abdullah II School for Information Technology, The University of Jordan, Amman, Jordan**
12th Aug, 2012 – 12th Aug, 2016.
Teaching: Business Intelligence, Business Intelligence (Master level), Digital Logic Design , Web Application Development (XHTML, CSS,JS), Web Publishing (ASP.Net), and Fundamentals of Information Technology.
- **Director of Computer Center, The University of Jordan, Amman, Jordan.**
7th Sept, 2014 – 8th Augt, 2016.
- **Chairman of Business Information Technology Department, King Abdullah II School for Information Technology, The University of Jordan, Amman, Jordan.**
2nd Sept, 2013 – 4th Sept, 2014

- **Research Associate (Industrial Partnership), The Supplies Group Ltd, High Wycombe, UK.**
6th June, 2011 – 23th Dec., 2011.
I worked on a Knowledge Transfer Partnership (KTP) project "PREDICTION OF CUSTOMER LIFETIME VALUE". It's a joint project between the University of Birmingham (Prof. Peter Tino), The University of Warwick (Dr. Sarabjot Anand), and the Supplies Group Company (CEO Noah Gresham).
- **Teaching Assistant, The University of Birmingham, Birmingham, UK.**
3rd Oct, 2008 – 27th June, 2012
 I have been the teaching assistant for the following modules:
 - Foundations of Computer Science 1 (BSc. level) (Semester1 2008, 2009, 2010).
 - Foundations of Computer Science 2 (BSc. level) (Semester2, 2009, 2010, 2012).
 - Fundamentals: Database Technology (MSc. level) (Semester 2, 2009).
 - Information and the Web (BSc. level) (Semester 2, 2010).
- **IT Lecturer, Emirates College of Technology, Abu Dhabi, UAE**
1st Sept, 2005 – 14th July, 2008
 I have been responsible of teaching the following Courses to Diploma and Undergraduate Students:
 - Object oriented Programming (Java, C++)
 - Data and Web Mining Applications (Data Warehouse, Data Mart, Decision support Resources).
 - Relational Database Design (*Including practical work on Oracle 10g*).
 - System analysis and Design
 - Advance Web Development (XHTML 1.0, XML, DTD, CSS).
 - Computer Skills (ICDL).
- **Acting IT Coordinator, Emirates College of Technology, Abu Dhabi, UAE**
1st June, 2007 – 2nd Sept, 2007 (Summer Term).
 - Teaches IT Courses.
 - Plans, organize, implements, and evaluates the IT faculty activities.
 - Supervises academic advising services
 - Participates in the process and coordinates the regular review of curricula.
 - Approves transfer of credits of courses in IT faculty.
 - Assumes memberships of the concerned college committees.

List of publications

Journal Publications:

- **Ali Rodan, Alaa Sheta, Hossam Faris: *Bi-directional Reservoir Networks Trained using SVM+ Privileged Information for Manufacturing Process Modeling.***
Soft Computing, Springer, 02/2016; Accepted.
- **Ali Rodan, Hossam Faris, Ja'far Alqatawna: *Optimizing Feedforward Neural Networks using Biogeography based optimization for E-mail Spam Identification.***
International Journal of Communications, Network and System Sciences, 01/2016; 9(1):19-28.
- **Maen M. Al Assaf, Ali Rodan, Mohammad Qatawneh, Mohamed Riduan Abid: *Comparison Study Between Informed and Predictive Prefetching Mechanisms For I/O Storage Systems.***

International Journal of Communications, Network and System Sciences
05/2015; 8(5):181-186.

- Fida' Al-Obaisi, Ja'far Alqatawna, Hossam Faris, **Ali Rodan**, Omar AlKadi: *Pattern Recognition of Thermal Images for Monitoring of Breathing Function.*
International Journal of Control and Automation 6/2015; 8(6):381-392. SERSC.
- **A Rodan**, A Fayyoumi, H Faris, J Alsakran, O Al-Kadi: *Negative Correlation Learning for Customer Churn Prediction: A Comparison Study.*
The Scientific World Journal, 9/2014, 7 pages, Hindawi.
- **A Rodan**, H Faris, J Alsakran, O Al-Kadi: *A Support Vector Machine Approach for Churn Prediction in Telecom Industry.*
International journal of INFORMATION, 17 (8), 3961-3970, 2014.
- H. Chen, P. Tino , **A. Rodan** and X. Yao: *Learning in the Model Space for Cognitive Fault Diagnosis.*
IEEE Transactions on Neural Networks and Learning Systems, 25(1), pp 124-136, 2014. (c) IEEE.
- J Alsakran, **A Rodan**, N Alhindawi, H Faris: *Visualization analysis of feed forward neural network input contribution.*
Scientific Research and Essays 9 (14), 645-651, 2014.
- N Alhindawi, J Alsakran, **A Rodan**, H Faris: *A Survey of Concepts Location Enhancement for Program Comprehension and Maintenance.*
Journal of Software Engineering and Applications 7 (5), 413-421, 2014.
- H Faris, M Alkasassbeh, **A Rodan**: *Artificial Neural Networks for Surface Ozone Prediction: Models and Analysis.*
Polish Journal of Environmental Studies 23 (2), pp.341-348, 2014.
- H Faris, N Ghatasheh, **A Rodan**, M Abu-Faraj: *Predicting Surface Ozone Concentrations using Support Vector Regression*
Life Science Journal, 11 (6), pp.126-131, 2014.
- P. Tino and **A. Rodan** : *Short Term Memory in Input-Driven Linear Dynamical Systems.*
Neurocomputing, Vol. 112, pp.58-63, 2013. (c) Elsevier.
- **A. Rodan** and P. Tino: *Simple Deterministically Constructed Cycle Reservoirs with Regular Jumps.*
Neural Computation, 24(7), pp 1822-1852, 2012. (c) MIT Press.
- **A. Rodan** and P. Tino: *Minimum Complexity Echo State Network.*
IEEE Transactions on Neural Networks, 22(1), pp 131-144, 2011. (c) IEEE.

Refereed Conference Papers

- **Ali Rodan**, Hossam Faris: *Credit Risk Evaluation using Cycle Reservoir Neural Networks with Support Vector Machines Readout.*
Lecture Notes in Artificial Intelligence, Springer -Verlag Berlin Heidelberg, Accepted Nov. 2015.

- **Ali Rodan** and Hossam Faris : *Echo State Network with SVM-readout for customer churn prediction.*
IEEE Conference in Applied Electrical Engineering and Computing Technologies (AEECT 2015), pp.1-5, Deadsea, Jordan, 2015.
- Dana A. Al Qudah, Alexandra I. Cristea, Suncica Hadzidedic Bazdarevic, Samar Al-Saqqa, **Ali Rodan**, Wei Yang: *Personalized E-Advertisement and Experience: Recommending User Targeted Ads.*
12th IEEE International Conference on e-Business Engineering (ICEBE 2015), pp. 56-61, Beijing, China, 2015.
- P. Tino and **A. Rodan**: *Short Term Memory Quantifications in Input-Driven Linear Dynamical Systems.*
20th European Symposium on Artificial Neural Networks - Computational Intelligence and Machine Learning- ESANN 2012, Bruges (Belgium), 25-27 April 2012, pp. 43-48., 2011.
- **A. Rodan** and P. Tino: *Negatively Correlated Echo State Networks.*
19th European Symposium on Artificial Neural Networks - Computational Intelligence and Machine Learning- ESANN 2011, Bruges (Belgium), 27-29 April 2011, pp. 53-58., 2011.
- **A. Rodan** and P. Tino: *Simple Deterministically Constructed Recurrent Neural Networks.*
In **Intelligent Data Engineering and Automated Learning (IDEAL 2010)**, pp. 267-274, Lecture Notes in Computer Science, LNCS 6283, Springer-Verlag, 2010.

Invited Talks

- **A. Rodan** and N. Landia: *Optimisation of Online Ad-Spend with regard to Predicted Customer Lifetime Value.*
KTN project presented at the Alan Taylor Day, **St Catherine's College, University of Oxford**, Oxford, UK, Nov., 2011.
- **A. Rodan** : *Demystifying Reservoir Computing.*
School of Computing and Mathematics, Keele University, Keele, Staffordshire, UK, March, 2011.
- **A. Rodan** : *Reservoir Computing Methods for RNN training.*
School of Computer Science, The University of Birmingham, Birmingham, UK, May 2010.

Case Studies

A. Rodan, P. Tino and N. Gresham: *Prediction of Customer Lifetime Value, A case study for the KTP project:*

Link: https://connect.innovateuk.org/documents/3000302/6460200/IP11-014_TSG_Birmingham_CaseStudy.jsessionid=CC2266E8266A3946EF7DB99812A7AFF5.1?version=1.0

Journal and Conference refereeing

- I have referred for the following Journals and Conferences.

Journals:

- IEEE transactions on Neural Networks
- Neural Computation MIT Press.

- Scientific Reports Nature.
- Neural Network World.
- Natural Computing Springer.

Conferences:

- ICEPUB 2016
- AEECT 2015
- ICEPUB 2015
- NTP 2014
- ICONIP 2012
- ESANN 2011 and 2012
- IDEAL 2010 and 2011
- IJCNN 2010
- ICANN 2010

- I am organizing a Call for Chapters for our upcoming book entitled “Social Media Shaping E-publishing” to be published by **Springer in late 2016**.

Editors: Dr. Nashrawan Taha, Dr. Rizik Al-sayyed, Dr. ja’far Alqatawna, and **Dr. Ali Rodan**.

- I organized a **special session "Reservoir Computation" at IJCNN 2010** Conference in Barcelona, Spain with **Prof. Peter Tino** (University of Birmingham) and **Dr. Pedro Gutierrez Pena** (University of Cordoba, Spain).

-I also involved in organizing a special session "**Theory and Practice of Adaptive Input Driven Dynamical Systems**" at **ESSAN 2012** Conference in Bruges, Belgium with **Prof. Peter Tino** (University of Birmingham), **Prof. Herbert Jaeger** (Jacobs University, Germany) and **Prof. Jochen Steil** (Bielefeld University , Germany).

Funded projects

- Modernization of Teaching Methodologies in Higher Education: EU Experience for Jordan and Palestinian Territory (METHODS), Erasmus+ Project 2016.
- Master in Health Informatics”, HEAL+, Erasmus+ Project 2015.
- Panorama of the Royal Speeches, Scientific Research Fund project 2015.
- Enhancing Quality of Technology-Enhanced Learning at Jordanian Universities”, eQTeL, TEMPUS Project 2013.
- Early warning system to combat violence at the University, Deanship of Scientific Research, The University of Jordan 2012.

Representative Person Roles

- King Abdullah II School for Information Technology's (KASIT) representative person in the university council, 2014-2015.

Participation in Committees

- **External Committees**
 - University of Jordan representative for the membership of the Technical Advisory Committee in the Jordanian Universities Network, 2014 – 2016.

- Committee member of several universities programs accreditations in the Higher Education Accreditation Commission, 2013 – present.
- **University Level**
 - Member of the Higher Committee for the annual book, The University of Jordan, 2014 – 2016.
 - Committee Member of the University's website, University of Jordan, 2014 – 2016.
 - Member of the Committee for computerization the compulsory University requirements and electives courses, University of Jordan, 2014 – 2015.
 - Member of the Committee to issue a monthly e-newsletter of the University of Jordan, 2014 – 2016.
 - Member of the Preparatory Committee of the Alumni Forum , University of Jordan, 2014 – 2016.
- **College Level**
 - E-learning Committee, King Abdullah II School for Information Technology (KASIT), The University of Jordan, 2013 – 2016.
 - PhD program in Computer Science Committee, King Abdullah II School for Information Technology (KASIT), The University of Jordan, 2013 – 2014.
 - Scientific Research Committee, King Abdullah II School for Information Technology (KASIT), The University of Jordan, 2013 – 2014.
 - Graduate Studies Committee, King Abdullah II School for Information Technology (KASIT), The University of Jordan, 2013 – 2014.
 - Study Plan Committee King Abdullah II School for Information Technology (KASIT), The University of Jordan, 2013 – 2014.
- **Department Level**
 - Graduate Studies Committee, Department of Business Information Technology, KASIT, The University of Jordan, 2014 – present.
 - Student Training Committee, Department of Business Information Technology, the University of Jordan, 2012 – present.
 - Appointment and Promotion Committee, Department of Business Information Technology, the University of Jordan, 2013 – present.
 - Study Plan Committee, Department of Business Information Technology, the University of Jordan, 2013 – present.

Master Students Supervision

- **Ghofran Al-Qaralleh (2015 -)**, MSc. Thesis Title: " instance selection for active learning in network intrusion detection", The University of Jordan.
- **Huda Jazmawi (2015 -)**, MSc. Thesis Title: "Effort Estimation for Web-Based Projects Using Genetic Algorithms", The University of Jordan.
- **Ashraf Yousif (2015 -)**, MSc. Thesis Title: "Intrusion Detection systems (IDS) using high dimensional space modelling", The University of Jordan.

- **Mais Haj Qasem (2014 – 2015)**, MSc. Thesis Title: “Data Mining Approach for Commercial Data Classification and Migration in Hybrid Storage Systems”, The University of Jordan.
- **Duaa Elsarraj (2014-2015)**, MSc. Thesis Title: “Demystifying Echo State Network with deterministic simple topologies”, The University of Jordan.

I also co-supervised the following Master students Thesis at the University of Birmingham, UK:

- **May Tamara Stow**, MSc. Thesis Title: "Memory Capacity of Recurrent Neural Networks", **finished Oct. 2011.**
- **Jiazhen Xie**, MSc. Thesis Title: "Modelling Customer Lifetime Value", **finished Oct. 2011.**

Programming Skills and Projects

Programming

- C/C++
- JAVA
- Visual Basic and VB.Net
- Pascal, Cobol, Assembly
- Parallel Programming PVM and Beowulf Cluster.
- Client /Server Applications using Java RMI and SOAP.
- SQL, PL/SQL
- Network Security Using OpenSSL
- CSP Formal notation for design concurrent system Language
- Formal Specification Using Z notation, UML
- Crystal Reports, SQL Server 2012
- HTML 5.0, XHTML 1.1 Strict, XML
- CSS, DTD, XML Schema, Schematron

System Administrations

- Linux, Solaris, Unix
- Microsoft Windows 2000, XP.

PROJECTS

- Master Dissertation Topic: Secure Electronic Cash Using Web Services.
- E-Learning Tool and Online Test Exams Using ASP.Net
(*B.Sc. Graduation Project*)
- Distributed Bank System (Web Service Application) using GSOAP.
- Weather Simulation using JAVA RMI.
- Train Simulation Using PVM and Beowulf Cluster.
- Establish Notepad Using Java.

Personal Skills

- First year research students representative 2009 at the University of Birmingham.
- I was elected as the MSc. Students Representative 2004, which enabled me to develop my communication skills at Oxford Brookes University.
- Manage to live and work with other people from different countries.
- Qualified to work within a team.
- Manage to work under pressure, working for long hours.

Interests / Activities

Reading, Web Browsing, and Travelling.