

Faculty Curriculum Vitae

1. Personal Data					
Full Name:	Name: Rawan Ghnemat				
Department:	Computer scier	nce Departi	ment		
Faculty:	King Hussein So Computing Scie		University:	Princess Sumaya University for Technology	
Phone Number:	+96265359949	Ex: 5336	Fax Number:	(+962) 6-5	347 295
Address:	Amman 11941,	Jordan P.C).Box 1438 Al-Jubaih	a	
Email:	r.ghnemat@psut.edu.jo		Homepage:	https://psut.edu.jo/en/staff/professor/dr-rawan-ghnemat	
Date of Birth:	05/06/1980		Nationality:	Jordanian	
2. Education	1			1	
Certificate	Specialization	Year	Name of University	City	Country
Ph.D. with distinction	Computer Science	2009	Le Havre University	Le Havre	France
M.Sc. GPA:3.94/4.0 (Rank: 1st in the computer science department).	Computer Science	2006	Al-Balqa' Applied University	As-Salt	Jordan
B.Sc. GPA: 3.75/4.0 (Rank: 1st in the engineering department).	Geomatics Engineering	2003	Al-Balqa' Applied University	As-Salt	Jordan

Title of Dissertation:		Adaptive Modeling for Spatial Emergence within Complex Systems						
Name of University		City		State			Country	
Le Havre University		Le Havi	re				France	
4. Employment				1				
4.1 Academic Positio	ns:							
Rank		Department	Univer	sity	City	Country		Date/s
Associate Professor		nputer Science Department	Prince Suma Universi Techno	ya ty for	Amman	Jo	rdan	6/9/2017- present
Assistant Professor	Computer Science Department		Prince Suma Universi Techno	ya ty for	Amman	Jo	rdan	28/9/2011- 6/9/2017
Assistant Professor	School of Electrical Engineering and Information Technology (SEEIT)		Germ Jordar univer	an nian	Amman	Jo	rdan	13/9/2009- 12/9/2011
4.2. Administrative P	ositio	ons:						
Position		Faculty	Univer	sity	City	Co	untry	Period
Chairman of Department	Chairman of Computer Science Department		Prince Suma Universi Techno	ya ty for	Amman	Jo	rdan	2016-2017
5. Research Interest	:							
Deep Learning.				Convolutional Neural Network (CNN), Computer Vision.				
Deep Learning in Med	dical I	maging.		Mach	in Leaning.			

6. Membership in Scientific Societies and Associations

Editorial Board Membership:

Discover Artificial Intelligence (Springer Nature), Editorial Board Member, 18 November 2025 – Present. Contributing to peer review, manuscript evaluation, and the development of this Q1 transdisciplinary Aljournal, indexed in Scopus, DOAJ, and Ei Compendex. Journal link:

https://link.springer.com/journal/44163

Sigma Xi: Full Member, Sigma Xi, The Scientific Research Honor Society. (https://www.sigmaxi.org/)

RAWABIT: collaboration and information-sharing network among Jordanian and U.S. universities. RAWABIT aims to facilitate increased cooperation in all forms of higher and post-secondary education, to bridge the education-to-employment gap, and improve economic outcomes for all Jordanians. (https://www.fulbright.org.jo/programs/rawabit)

LITIS (Computer Science, Information Processing, and Systems Laboratory, Normandy Region, France) The LITIS is a laboratory (EA 4108) the University of Rouen Normandy, the University of Havre Normandy, and INSA Rouen Normandy. It is a member of the Normand network «Digital Normandy». LITIS is a partner of the French National Centre for Scientific Research (CNRS) Research Federation.

RNSC (Réseau National des Systèmes Complexes): The French National Network on Complex Systems is a vast network that coordinates and organizes all research related to complex systems in France. This network boasts hundreds of researchers as members.

ISCN (Institute of Complex Systems in Normandy): The institute aims to advance fundamental scientific research and applied research in emerging areas related to complex systems and complexity.

7. Honor and Awards

Full Membership in Sigma Xi, The Scientific Research Honor Society based on the advance knowledge in my field.

Best Paper Award in 2024 9th International Conference on Machine Learning Technologies (ICMLT 2024), Oslo, Norway, May 24-26, 2024.

8. Fellowships and Scholarships

- A scholarship from the French Government to get Ph. D in Computer Science from Le Havre University, France (2006-2009).
- A scholarship from Al-Balqa Applied University to get a master's degree in Computer Science (2004-2006).

9. Teaching Experience

Over the past 8 years, consistently achieved an excellent student evaluation average score of 95%, reflecting exceptional teaching performance and dedication to student success across both

undergraduate and graduate courses. This evaluation is based on multiple dimensions, including clarity of instruction, course organization, engagement, and student support.

Regularly recognized for outstanding student mentorship and guidance, fostering both academic and professional growth. Numerous students have pursued successful careers and higher education with direct supervision and support in areas such as artificial intelligence, deep learning, and data science.

9.1 Graduate Courses

No.	Course Name	Course Number
1.	Machine Learning (Ph.D.)	11946
2.	Artificial intelligence (Ph.D.)	11942
3.	Artificial intelligence (Master)	11753

9.2 Undergraduate Courses

No.	Course Name	Course Number
1.	Structured programming	11103
2.	Introduction to computer science.	11102
3.	Artificial intelligence	11428
4.	Graduation projects	11493/ 11494
5.	Compiler construction.	CS419
6.	Data structure.	CS223
7.	Object-oriented programming (Java).	CS214
8.	Computer graphics	CS332

10. Su	10. Supervision of Graduate Research			
No.	Student Name	Title of Thesis	Year	
1.	AbedlRahman Almodawar.	Edge Artificial Intelligence (Edge-AI) for Resilient Global Navigation Satellite System (GNSS)-Based Localization in Challenging and GNSS-Denied Environments	2025-present	
2.	Hana Alrasheed	Enhance Large Language Models for Arabic Questions and Answers Medical Datasets	2023-2025	
3.	Ali Safia	End-to-end Jordanian dialect speech-to-text system using self-supervised learning.	2020-2023	
4.	Zainab Althafir	A Hybrid Approach for Auto-Correcting Grammatical Errors Generated by Non- Native Arabic Speakers.	2020-2022	
5.	Lina Siyam	Question Answering System For Arabic Medical Consultation Using Hybrid Deep Learning Model.	2020-2022	
6.	Reem Ahmad	Detecting Phishing Websites by Integration of Sampling and Classification Techniques .	2017-2018	
7.	Ahmad Ghnam	Using Second-Order Newton's Method for Artificial Neural Networks Optimizations.	2018-2019	
8.	Reham Saeed	Improve Religious Hate Speech Detection in Arabic Language in Social Media.	2019-2022	
9.	Dayan Rashid	Software Defect Prediction using Metaheuristic Algorithm and Random Forest Classifier.	2016-2017	
10.	Rami Darwish	Enhancing the Ontologies Matching in Semantic Web using Artificial Neural Network.	2016-2017	
11.	Mohammad Ghazawi,	Dynamic Clustering Queries for Search Engines using Particle Swarm Optimization Algorithm.	2015-2017	

12.	Ruba Zaghari,		_	ation for Web Us g Kohonen Maps		2012	-2013
11. G	11. Grants						
No.	Project Name	2	Year Of Grant	Grantor Organization			Grant Amount
1.	Bringing Data Literacy to Jordan (BDL2JO)		2023	DAAD			40000 EUR
2.	Autism spectrum disorders diagnosis and rehabilitation using new pruning algorithm for deep Convolutional Neural Networks(CNN) with Swarm intelligence (SI).		2023	PSUT (Seed Fund)			3000 JD
3.	Next-Generation Al for Autism Spectrum Disorder: Multimodal Diagnosis and Personalized Rehabilitation		2025	PSUT (Seed F	und)		6000 JD
4.	Al-Based Skin Analysis and Recommendation Project		2025	PSUT (venture	e Lab)		10000JD
12. Pa	12. Patents						
No.	Author's last au		thor's first name	Name of Patent	Pate numb		Date the patent was issued (Date/Month/Year)

13. M	13. Membership of Committees			
13.1	13.1 National and International Committees (add rows as needed)			
1.	Editorial Board Membership: Discover Artificial Intelligence (Springer Nature), Editorial Board Member, 18 November 2025 – Present. Journal link: https://link.springer.com/journal/44163			
2.	International Advisory Board of 2025 9th International Conference on Artificial Intelligence and Virtual Reality (AIVR2025). https://www.aivr.org/com.html			
3.	GAT GROUP Strategic Steering Committee. https://www.i-gat.com/members .			
4.	Member in higher education accreditation council for computer science and information technology programs since the year 2016.			
5.	Funded research project evaluation for the Jordanian Ministry of higher education and scientific research.			
6.	Member in the Editorial Board of the Journal of Intelligent Computing, Dline.			
7.	Participation in a focus group about: "The Challenges Women Face in Innovation in Jordan" Project funded by Civic Initiatives Support Program (USAID-CIS).			
8.	Member in the Jordan Engineers Association (JEA).			
9.	Member in the French universities' graduate alumni in Jordan.			
10.	Member in the Organizing Committee of the International Conference on New Trends in Computing Sciences (ICTCS) .			
11.	RAWABIT: collaboration and information-sharing network among Jordanian and U.S. universities. RAWABIT aims to facilitate increased cooperation in all forms of higher and post-secondary education, to bridge the education-to-employment gap, and improve economic outcomes for all Jordanians. (https://www.fulbright.org.jo/programs/rawabit)			
12.	Falling walls competitions Jury member. https://falling-walls.com/			
13.2	Jniversity Committees (add rows as needed)			
1.	Member of the Department sabbatical leave technical report evaluation Committee, PSUT, 2023.			
2.	Member of the Student's Mental Health Committee, PSUT, 2022-present			

3.	Member of the Department Scientific Research Committee, PSUT, 2021-present
4.	Member of the Student's Violation Investigation Committee, PSUT, 2020-present
5.	President of the university social Committee, PSUT, 2020-present
6.	President of the Academic Advising Committee, PSUT, 2019-2021
7.	Member in Department graduation project evaluation committee 2019-present
8.	External examiner for Ph.D. thesis and master thesis from (2014-present)

14. Pro	ofessional and Scientific Meetings
14.1 \$	Scientific Meetings Organized
Provid	de list of conference or symposium or workshop etc., place, and date (add rows as needed)
1.	International Advisory Board of 2025 9th International Conference on Artificial Intelligence and Virtual Reality (AIVR2025). https://www.aivr.org/com.html Osaka, Japan ,2025, July 11-13.
2.	Conference of the European project: Female Academic Role Model Empowerment, Equality, and Sustainability at Universities in Mediterranean Region: towards 2030 Agenda – FREE, June 2022, Amman, Jordan
3.	Scientific/Organizing Committee member of the second International Conference on New Trends in Computing Sciences (ICTCS), October 2019, Amman, Jordan,
4.	Scientific/Organizing Committee member of the first International Conference on New Trends in Computing Sciences (ICTCS), October 2017, Amman, Jordan
14.2 F	Participation in Scientific meetings
Provid	de list of conference or symposium or workshop etc., place, and date (add rows as needed)
1.	Al in Higher Education Workshop organized by German Academic Exchange Service (DAAD), June 2024, Amman Jordan.
2.	2024 9th International Conference on Machine Learning Technologies (ICMLT 2024), , ,Oslo, Norway ,May 24-26, 2024. https://icmlt.org/2024.html

3.	Technology Camp at the US embassy in Jordan. January 2024
4.	SHETECHS forum: Amplifying Business Growth through Women in Technology, March 2024. https://www.shetechsforum.com/
5.	RAWABIT Launch program event RAWABIT: The U.SJordanian University Cooperation Network , June 2023. https://www.fulbright.org.jo/programs/rawabit
6.	2022 International Conference on Emerging Trends in Computing and Engineering Applications (ETCEA), November 2022, Amman, Jordan.
7.	International Conference on Software and Information Engineering (ICSIE) November 2020, online.
8.	Huawei deep learning workshop, June 2020, online.
9.	Judge FALLING WALLS compaction LAB 2017. https://falling-walls.com/lab/apply/jordan/
10.	Participation in World Science Forum November ,2017. https://2017.worldscienceforum.org/

15. Pa	15. Participation in or organization of curricular and/or extra-curricular activities		
Provid	Provide list with name, place, date of event and other relevant details (add rows as needed)		
1.	The founder and the organizer of chat Bot summer camp for PSUT students with Jordan's open-source association, PSUT, in the summer of 2017.		
2.	Participation in a focus group about: "The Challenges Women Face in Innovation in Jordan" Project and funded by Civic Initiatives Support Program (USAID-CIS).Al-Hussain Business park Amman ,Jordan 2019.		
3.	Developing introduction course for Artificial Intelligence with Edraak Organization (https://www.edraak.org/programs/course/arin-vt3_2018/).		
4.	Invited Speaker in Dubai Smart City / Expo 2020 seminar about intelligent web applications. Dubai, April 5 – 7/ 2018.		

16. Publications

Provide numbered lists of:

- Papers in refereed journals
- Books and Book Chapters
- Conference Presentations
- Reports

Format to be followed:

Author's family name, initials (in case of multiple authors, your name and initials should be in bold); Title of Article, Name of Journal, Vol. no., year of publication, pages xxx-xxx. (add rows as needed)

	Ghnemat, R., Mosa, H. Blockchain-based fraud detection: A systematic review of
1.	Ethereum network applications. <i>Cluster Computing</i> ,28, 1080 (2025).
	https://doi.org/10.1007/s10586-025-05797-w.
	Khader, S., Ghnemat, R. AGU-Net: advancing medical image segmentation with
2.	attention-guided U-Net architecture. <i>Cluster Computing</i> , 28 , 1074 (2025).
	https://doi.org/10.1007/s10586-025-05781-4.
	Alnagi, E., Ghnemat, R. & Abu Al-Haija, Q. Boosting Arabic text classification using
3.	hybrid deep learning approach. <i>Discover Applied Sciences</i> , 7 , 540 (2025).
	https://doi.org/10.1007/s42452-025-07025-x.
	Ghnemat R., Al-Madi N, Awad M."An Intelligent Approach for Autism Spectrum
4.	Disorder Diagnosis and Rehabilitation Features Identification", Neural Computing
	and Applications, Neural Comput & Applic 37 , 2557–2580 (2025).
	https://doi.org/10.1007/s00521-024-10770-6.
	Ghnemat R. , and Al-mashaqbeh s." Novel Image Data Augmentation Technique for
	Deep Learning Using Least Significant Bit Encryption". In 2024 9th International
5.	Conference on Machine Learning Technologies (<i>ICMLT 2024</i>), May 24-26, 2024,
	Oslo, Norway. ACM, New York, NY, USA, Pages: 143-152. ACM ISBN 979-8-4007-
	1637-9/24/05
	https://doi.org/10.1145/3674029.3674053
_	Saif A., Ghnemat R., Abu Al-Haija Q." A Siamese network optimization using genetic
6.	algorithm for brain diseases". <i>IET Image Process</i> . 00, 1–10 (2024).
	https://doi.org/10.1049/ipr2.13168
	Alslman Y., Khalil A., Younisse R., Alnagi, E., Al-Saraireh J. and Ghnemat R. " DDOS
7.	ATTACK-DETECTION APPROACH BASED ON ENSEMBLE MODELS USING SPARK".
	Jordanian Journal of Computers & Information Technology (JJCIT). Feb 2024.10(2).
	https://doi.org/10.5455/jjcit.71-1694806966

8.	Ghnemat R., Almodawar A. and Al Saraireh J." Scalable model for segmenting Cells' Nuclei using the U-NET architecture". <i>Multimedia Tools and Applications</i> . <i>Multimed Tools Appl</i> 83, 63655–63678 (2024). https://doi.org/10.1007/s11042-023-18033-7
9.	Ghnemat, R., Alodibat S., Abu Al-Haija Q. "Explainable Artificial Intelligence (XAI) for Deep Learning Based Medical Imaging Classification". <i>J. Imaging</i> . 2023, 9, 177. https://doi.org/10.3390/jimaging9090177
10.	brahimR., Ghnemat R ., Abu Al-Haija Q. "Improving Alzheimer's Disease and Brain Tumor Detection Using Deep Learning with Particle Swarm Optimization". <i>Al</i> 2023, 4, 551-573. https://doi.org/10.3390/ai4030030
11.	Younisse R., Ghnemat R. , AlSaraireh J."Fine-tuning U-net for medical image segmentation based on activation function, optimizer and pooling layer". <i>International Journal of Electrical and Computer Engineering (IJECE)</i> .2023 Oct Vol. 13, No. 5. http://doi.org/10.11591/ijece.v13i5.pp5406-5417
12.	Ghnemat R. , Khalil A., Abu Al-Haija Q. "Ischemic Stroke Lesion Segmentation Using Mutation Model and Generative Adversarial Network". <i>Electronics</i> . 2023 Jan 25;12(3):590. https://doi.org/10.3390/electronics12030590
13.	Safieh A., Abualhaol I., Ghnemat R. "End-to-end Jordanian dialect speech-to-text self-supervised learning framework". <i>Frontiers in Robotics and AI</i> . 2022 Dec 22:345. https://doi.org/10.3389/frobt.2022.1090012
14.	Althafir Z., Ghnemat R. "A Hybrid Approach for Auto-Correcting Grammatical Errors Generated by Non-Native Arabic Speakers". <i>In2022 International Conference on Emerging Trends in Computing and Engineering Applications (ETCEA)</i> . 2022 Nov 23 (pp. 1-6). IEEE. https://doi.org/10.1109/ETCEA57049.2022.10009874
15.	Ghnemat R. "Hybrid Framework for Diabetic Retinopathy Stage Measurement Using Convolutional Neural Network and a Fuzzy Rules Inference System". <i>Applied System Innovation</i> . 2022 Oct 14;5(5):102. https://doi.org/10.3390/asi5050102
16.	Ghnemat R., Shaout A., Al-Sowi A.M. "Higher Education Transformation for Artificial Intelligence Revolution: Transformation Framework". <i>International Journal of Emerging Technologies in Learning</i> . 2022 Oct 1;17(19). https://doi.org/10.3991/ijet.v17i19.33309
17.	Ghnemat R., Shaout A. "Measuring Waste Recyclability Level Using Convolutional Neural Network and Fuzzy Inference System". <i>International Journal of Intelligent Information Technologies (IJIIT)</i> . 2022 Jan 1;18(1):1-7. https://doi.org/10.4018/IJIIT.306969

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18.	Ghnemat R., Ghnnam A., Al-Sowi A.M. "Deep Artificial Neural Networks Optimizations Using Second-Order Newtons Method". <i>Journal of Theoretical and Applied Information Technology</i> . 2021 Nov. Vol.99. No 22.pages 5527-5550.
	http://www.jatit.org/volumes/Vol99No22/27Vol99No22.pdf
19.	Alhuniti O., Ghnemat R ., El-Seoud M.S. "Smart university scheduling using genetic algorithms". <i>In Proceedings of the 2020 9th International Conference on Software and Information Engineering (ICSIE)</i> . 2020 Nov 11 (pp. 235-239). https://doi.org/10.1145/3436829.3436873
20.	Alwidian J., Elhassan A., Ghnemat R. "Predicting autism spectrum disorder using machine learning technique". <i>International Journal of Recent Technology and Engineering</i> . 2020 ;8(5):4139-43. https://doi.org/10.35940/ijrte.E6016.018520
21.	Ghnemat R., Mansour A., Abbadi J., Madain R. and Madain A., "Medsinfo: An Android Application For Recognizing JFDA Approved Medication And Acquiring The Corresponding Arabic Leaflet." <i>International Journal of Scientific & Technology Research.</i> 2019.Vol 8, no. 12.: 10-15. https://www.ijstr.org/final-print/dec2019/Medsinfo-An-Android-Application-For-Recognizing-Jfda-Approved-Medication-And-Acquiring-The-Corresponding-Arabic-Leaflet.pdf
22.	Alsadi M.S., Ghnemat R. , Awajan A. "Accelerating stochastic gradient descent using adaptive mini-batch size". <i>In2019 2nd International Conference on new Trends in Computing Sciences (ICTCS)</i> . 2019 Oct 9 (pp. 1-7). IEEE. https://doi.org/10.1109/ICTCS.2019.8923046
23.	Saeed R., Ghnemat R. , Benbrahim G., Elhassan A. "Learning with Dynamic Architectures for Artificial Neural Networks-Adaptive Batch Size Approach". In2019 2nd International Conference on new Trends in Computing Sciences (ICTCS) . 2019 Oct 9 (pp. 1-4). IEEE. https://doi.org/10.1109/ICTCS.2019.8923070
24.	Ibrahim D.R., Ghnemat R. , Hudaib A." Software defect prediction using feature selection and random forest algorithm". <i>In2017 International Conference on New Trends in Computing Sciences (ICTCS)</i> . 2017 Oct 11 (pp. 252-257). IEEE. https://doi.org/10.1109/ICTCS.2017.39
25.	Ghnemat R., Shaout A. "Hybrid Fuzzy Neural Search Retrieval System". <i>International Journal of Enterprise Information Systems (IJEIS)</i> . 2016 Jul 1;12(3):1-6.

	https://doi.org/10.4018/IJEIS.2016070105
26.	Hudaib A., Fakhouri H., Ghnemat R. "New methodology for microarray spot segmentation and gene expression analysis". <i>Scientific Research and Essays</i> . 2016 ; Vol. 11, No. 12, Pages 126-134. https://doi.org/10.5897/SRE2015.6378
27.	Ghnemat R, Jaser E. "Classification of Mobile Customers Behavior and Usage Patterns using Self-Organizing Neural Networks". <i>International Journal of Interactive Mobile Technologies</i> . 2015 Oct 1;9(4). https://doi.org/10.3991/ijim.v9i4.4392
28.	Al-Shboul M., Rababah O., Ghnemat R ., Al-Saqqa, S. "Challenges and Factors Affecting the Implementation of E-Government in Jordan". <i>Journal of Software Engineering and Applications</i> . 2014 ; Vol. 7, No. 13, Pages 1111-1127. https://doi.org/10.4236/jsea.2014.713098
29.	Rababah O., Al-Shboul M., Al-Zaghoul F., Ghnemat R. " Website Search Engine Optimization: Geo-graphical and Cultural Point of View". <i>Journal of Software Engineering and Applications</i> , 2014 ; vol. 7, No. 13, Pages 1087-1095. https://doi.org/10.4236/jsea.2014.713096
30.	Ghnemat R., Jaser E. "Toward Mobile Telecommunication Recommendation System through Intelligent Customers Categorization". <i>International Journal of Computers & Technology</i> , 2014 ; Vol. 12, No. 7, Pages: 3651-3658. https://doi.org/10.24297/ijct.v12i7.3099
31.	Ghnemat R., Zaghari R., Atoum J."Behavioral Segmentation For Web Searching Users Using Self-Organizing Kohonen Maps". <i>Proceedings of The Second International Conference on e-Technologies and Networks for Development</i> . 2013 ISBN: 978-0-9853483-6-6, Kuala Lumpur, Malaysia, March 4-6, 2013, the Society of Digital Information and Wireless Communication Pages: 114-121.
32.	Corson N., Aziz-Alaoui M., Ghnemat R. , Balev S., Bertelle C. "Modelling the Dynamics of Complex Interaction Systems: from Morphogeneis to Control", <i>International Journal of Bifurcation and Chaos</i> , 2012 ; Vol. 22, No. 2, Pages 1250025(1) - 1250025(20), https://doi.org/10.1142/S0218127412500253
33.	Ghnemat R., Lucchini F., Bertelle C." Modeling urban cultural systems with the interactive simulation platform Rouants". <i>Proceedings of MESM'2011, Middle Eastern Simulation and Modelling Conference, 2011</i> ; Amman, Jordan, November 14-16, 2011. Pages 96-100.
34.	Ghnemat R., Lucchini F., Bertelle C "Rouants simulation platform to model service user dynamics of cultural sites within urban area". <i>Proceedings EPNACS 2011, a satellite meeting of ECCS'11</i> , 2011 ; Vienna, Austria, September 12-16, 2011, Pages 61-67.

	Bertelle C., Dutot A., Ghnemat R ."Modeling Self-Organization Systems with Social
35.	Insects Algorithms", International Journal Broad Research in Artificial Intelligence and Neuroscience, 2010; Vol. 1, Pages 18-32.
36.	Ghnemat R., Bertelle C., Duchamp G.H.E." Modeling Spatial Organization with Swarm Intelligence Processes", <i>International Journal of Bio-Inspired Computation (IJBIC)</i> , 2010 ; Vol. 2, No. 6, Pages 374-382.
37.	Ghnemat R ., Bertelle C., Duchamp G.H.E. "Modeling Urban Dynamics Complexity with Swarm Intelligence processes", <i>EPNACS'2010 satellite meeting for ECCS'2010 - European Conference on Complex Systems</i> , 2010 ;Lisbon, Portugal, September 13-18, 2010
38.	Bertelle C., Al-Obaidy M., Ayesh A., Ghnemat R. "Interacting wireless sensors networks to spatial emergence for decision making". <i>Proceeding of 7th IEEE International Conference and Workshops on Engineering of Autonomic and Autonomous Systems</i> , 2010 (EASe 2010), University of Oxford, England, March 22-26, 2010. Pages 73-78
39.	Ghnemat R., Bertelle C., Duchamp G.H.E" Modeling urban services usage with social insect algorithms". <i>Proceeding of 2nd Asian Simulation Technology Conferencem</i> , 2010; (ASTEC'2010), Shanghai, China, March 1-3, 2010, Pages 115-122.
40.	Ghnemat R. , Bertelle C., Duchamp G. "A Methodology for Urban and Land-Use Management Simulation Using Spatial Self-Organization Processes". <i>Dynamics of Continuous, Discrete and Impulsive Systems journal - series B: Applications and Algorithms</i> , 2009 ;Vol. 16, No. 4, Pages 501-513.
41.	Ghnemat R. , Bertelle C., Duchamp G.H.E." Swarm intelligence for urban dynamics modeling", <i>American Institute of Physics (AIP Journals</i>), 2009;Vol. 1117 ,Pages 105-115.
42.	Bertelle C., Dutot A., Ghnemat R. "Applicative issues from self-organized systems based on social insects modelling", presented in <i>International Symposium in Understanding Intelligent and Complex Systems (UICS)</i> , 2009 ; Romania, October 22-23,.
43.	Ghnemat R. , Bertelle C., Duchamp G.H.E." Agent-based modeling using swam intelligence in geographical information systems. <i>In proceeding of 5th International Conference on Information Technology (ICIT), IEEE, 2008</i> ; Al-Ain, UAE, Dec. 16-18, 2008. Pages: 69-73.
44.	Ghnemat R. , Bertelle C., Duchamp G.H.E." Managing Spatial Self-organization via Collective Behaviors". <i>Proceeding of European Simulation and Modelling Conference ESM'2008</i> , October 27-29, 2008 , Le Havre, France, Pages 264-266.

45.	Ghnemat R., Lucchini F., Bertelle C. "Urban cultural dynamics modelling using swarm intelligence and geographical information systems", In proceedings of <i>The 2008 European Simulation and Modelling Conference (ESM2008)</i> , 2008 ; Le Havre University, France, Oct. 27-29, 2008. Pages: 258-263.
46.	Ghnemat R., Bertelle C., Duchamp G.H.E "Urban Dynamics Modelling using Ant Nes Building", <i>In proceedings of Middle East Simulation and Modelling (MESM 2008)</i> 2008; Philadelphia University, Jordan, August 26-28, 2008. Pages: 124-128.
47.	Ghnemat R., Bertelle C., Duchamp G.H.E. 2008. "Adaptive Spatial System Emergence from Community Swarm Optimization", <i>In proceedings of Swarm Intelligence Algorithms and Applications Symposium (SIAAS)</i> , Aberdeen, Scotland, April 1-4, 2008.
48.	Ghnemat R. , Duchamp G.H.E., Bertelle C. "On the use of generalized derangements for Schelling's model of segregation", 2007 ; in proceedings of <i>ESM'2007</i> , St Julian's Malta, October 22-24, 2007, Pages 306-308.
49.	Ghnemat R. , Bertelle C., Duchamp G.H.E "Adaptive Automata Community Detection and Clustering - A Generic Methodology", In proceedings of WCE'2007, London, U.K. July 2007 , Pages 25-30.
50.	Ghnemat R., Bertelle C., Duchamp G.H.E. "A Methodology for Ecological Resource Management Simulation using Geographical Information Systems and Interacting Agent Systems:, <i>Eco Summit 2007</i> , Beijing, China, May 22-27, 2007 .
51.	Ghnemat R. , Bertelle C., Duchamp G.H.E. "Self-organization simulation ove geographical information system based on multi-agent platform", <i>In Proceedings of ESM 2006</i> , Toulouse, France, 2006 ; October 23-25, 2006. Pages: 420-424
52.	Dahmani H., Duchamp G.H.E., Ghnemat R. , Hadj-Kacem H., Bertelle C. "Emerging Decision Support System for Geographical Information Systems", <i>In Proceedings of ECELM-2</i> , Tigu-Mures, Romania, May 31 - June 3, 2006 . Pages 78-90.
53.	Ghnemat R., Bertelle C., Duchamp G.H.E., Khatatneh K., Oqeili S. "Automata-Based Adaptive Behavior for Economic Modeling Using Game Theory", <i>EPNADS'05 within ECCS'05 International Conference</i> , Paris, France, Nov. 14-18, 2005. Springer Berlin Heidelberg. Pages 171-183
Во	ook Chapters:

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