



## Yasser Mohammad

Principal Researcher  
Data Science Labs, NEC

Professor  
Assiut University, Egypt

-  **Date of Birth:** Sep. 7, 1976
-  Tokyo, Japan
-  +81-80-5652-4120
-  yasserm@aun.edu.eg
-  <http://www.yasserm.com>
-  ORCID:0000-0003-2272-7254

## Interests

-  Automated Negotiation
-  Time Series Data Mining
-  Activity Recognition
-  Robotics and HRI

## Short Bio

Yasser received his PhD from Kyoto University in 2009. Since then he worked in universities, national research institutes, research companies and industrial research laboratories. He collaborated with experts in psychology, computer science, mathematics, robotics, HCI, HRI, machine learning among other fields. His research spans the area of applied AI with a focus on robotics and multiagent systems. Author of two books and a hundred articles with over a thousand citations. A senior IEEE member, PC member and reviewer for AAAI, IJCAI, AAMAS, IROS, HRI, IEEE Trans. on System Man and Cybernetics, Social Robotics, Applied Intelligence, among many others. Main organizer of the SCML@ANAC running yearly in conjunction of IJCAI.

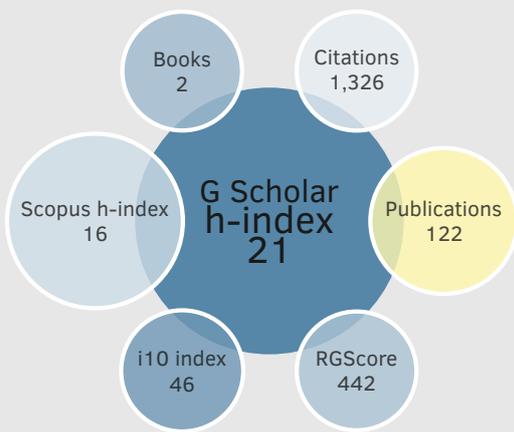
## Industrial Experience

- Jan, 2020 – ongoing **Senior Research Scientist** Data Science Laboratories NEC, Japan  
Conducting research and developing systems in the areas of multi-agent systems and ML. Leading platform development and international cooperation in automated negotiation.
- Feb, 2020 – ongoing **Specially Appointed Researcher** AIRC, AIST, Japan  
Research in automatic negotiation specially preference elicitation.
- August, 2020 – July 2021 **Visiting Researcher** AIP, RIKEN, Japan  
Research in automatic negotiation specially concurrent negotiation.
- Nov, 2017 – Dec, 2019 **Researcher** AIRC, AIST, Japan  
Research in automatic negotiation.
- Jun, 2017 – Nov, 2017 **Data Science Advisor** Xtrava (xtrava.co), USA  
Developing innovative real-time machine learning systems for biosensor data analysis.
- Nov, 2016 – Nov, 2017 **Chief Research Engineer** KDDI Research Inc. (kddi-research.jp) Japan  
Conducting state of the art research in human behavior understanding using machine learning techniques. Applying pattern recognition and deep learning techniques to time-series data mining.
- Jan, 2007 – Mar 2009 **Technical Executive Officer** Ayonix Inc. (ayonix.com) Japan  
Produced the complete first version of Ayofa SDK (A face detection/recognition SDK). Managed the development team of all products in the company.
- Apr, 2004 – Oct, 2005 **Developer** SCTU, Assiut Univ., Egypt  
Developed Assiut University Information Systems Internet Portal and designed software for university automation.

## Academic Experience

- Dec, 2022 – ongoing **Professor (currently on leave)** Assiut Univ., Egypt  
Teaching and conducting research in intelligent systems and participating in administrative efforts.
- Aug, 2016 – Dec, 2022 **Associate Professor** Assiut Univ., Egypt  
Teaching and conducting research in computer and systems engineering and participating in administrative efforts.
- Oct, 2015 – Jun, 2016 **Adjunct Professor** E-JUST Univ., Egypt  
Working as an Adjunct Assistant Professor for one day/week at Mechatronics and Robotics Engineering Department, Egypt-Japan University of Science and Technology (E-JUST), Egypt.
- Sep, 2012 – Aug, 2014 **JSPS Fellow** Kyoto Univ., Japan  
Conducting research in imitation learning and its applications in robotics.
- Jul, 2011 – Dec, 2011 **GCOE Postdoc Visiting Researcher** Kyoto Univ., Japan  
Conducting research in the applied intelligence dept. in collaboration with Prof. T. Nishida.
- Jan, 2010 – Aug, 2016 **Assistant Professor** Assiut Univ., Egypt  
Teaching and conducting research in computer and systems engineering and participating in administrative efforts.
- Jun, 2005 – Dec, 2009 **Teaching Associate** Assiut Univ., Egypt  
Assisting in teaching courses to students of Electrical Engineering, Mechanical Engineering and introductory Engineering courses and supervising graduation-projects
- Apr, 2000 – Jun, 2005 **Teaching Assistant** Assiut Univ., Egypt  
Assisting in teaching courses to students of Electrical Engineering, Mechanical Engineering and introductory Engineering courses and supervising graduation-projects
- Sep, 1999 – Apr, 2000 **Teaching Assistant** Assiut Univ., Egypt  
Assisting in teaching courses to students of Electrical Engineering, Mechanical Engineering and introductory Engineering courses and supervising graduation-projects

## Metrics



## Profiles



## Languages

Arabic (Mother Tongue)

English (Fluent)

Japanese (Learning)

## Personal

Yasser lives with his partner, a medical doctor, and three children in Tokyo since 2016.

## Education

- 2006 – 2009 **Ph.D. in Informatics (AI)** Kyoto Univ. Japan  
**Title:** Autonomous Development of Natural Interactive Behavior for Robots and Embodied Agents.  
AI HRI Unsupervised Learning Time Series Analysis
- 2001 – 2005 **M.Sc. in Computers and Systems Engineering** Assiut Univ. Egypt  
**Title:** Anubis: A novel network authentication protocol.  
Computer Security Network Authentication BAN Logic
- 1993 – 1998 **B.Sc. in Electrical Engineering** Assiut Univ., Egypt  
**Graduation Project:** Construction and control of a 2D robot for drawing applications.  
Robotics Automatic Control Simulation

## Review and Editorial Duties [publons profile](#)

- Journals New Generation Computing, Social Robotics, IEEE Trans. on Systems Man and Cybernetics, IEEE Trans. on Industrial Electronics, Neurocomputing, AI & Society, Applied Intelligence, among many others ...
- Conferences AAAI, IJCAI, AAMAS, IEEE ROMAN, IEEE HRI, IEEE IROS, DATA, IEA/AIE, ISIEA, PECON, ACHI, ICCCI, ICAS, KUI, ...
- Organizer SCM league of the ANAC competition in conjunction with IJCAI since 2019

## Honours and Awards

- Dec 2023 **Best Paper Award** Kyoto, Japan  
The 7th IEEE International Conference on Agents (IEEE ICA)
- Jan 2021 **Finalist for the International Automated Negotiating Agents Competition (Genius track)** Nagoya, Japan  
International Joint Conference on Artificial Intelligence (IJCAI)
- Nov 2020 **Runner for Best Paper Award** Nagoya, Japan  
The 23rd International Conference on Principles and Practice of Multi-Agent Systems (PRIMA)
- Mar 2015 **Best Presentation Award** Kitakyush, Japan  
the 3rd International Conference on Industrial Application Engineering
- Sep 2014 **Outstanding Paper Award** Seoul, South Korea  
ICROS International Conference on Control, Automation and Systems (ICCAS) 2014 (out of 337 accepted papers from 25 countries)
- Sep 2012 **JSPS Fellowship** Kyoto University, Japan  
JSPS long term post-doc fellowship for foreign researchers (2012-2014)
- Jul 2011 **GCOE Postdoc Fellowship** Kyoto University, Japan  
July-December 2011
- Oct 2011 **Best Paper Award** Kitakyush, Japan  
IEEE SII 2012 (Control) (from 248 accepted papers)
- Jun 2009 **Best Paper Award** Tainan, Taiwan  
the Twenty Second International Conference Industrial, Engineering, and other applications of Applied Intelligent Systems (IEA/AIE 2009). Acceptance rate was 29% out of 286 submitted papers (ranked 46th among top 701 computer science conferences)
- Jun 2008 **Best Paper Award** Wroclaw, Poland  
the Twenty First International Conference Industrial, Engineering, and other applications of Applied Intelligent Systems (IEA/AIE 2008). Acceptance rate was 30% out of 270 submitted papers (ranked 46th among top 701 computer science conferences)

# Teaching Experience

## Undergraduate Courses (Partial List)

Assiut University	<b>Electrical Engineering</b> Introduction to Computer Science, Numerical Analysis, Microprocessors, Computer Organization, Computer Architecture, Database Systems, Digital Signal Processing, Databases	2010–2015
Assiut University	<b>Mechatronics</b> Robotics Engineering	2010–2015
Assiut University	<b>Information and Computers</b> Graphical User Interfaces, Network Security, Computer Security, Microprocessors, Computer Organization	2010–2015

## Postgraduate Courses (Partial List)

E-JUST University	<b>Mechatronics Engineering M.sc. and PhD</b> Intelligent Control Systems	2016
Assiut University	<b>Electrical Engineering M.sc. and PhD</b> Robot Motion Planning, Pattern Recognition, Probabilistic Inference, Data Sciences and BigData	2010–2015

## Academic Supervision

2012–2016	<b>Mostafa Abdallah</b> An Integrated ROS stack for Autonomous learning of Perceptual and Motion Primitives	M.Sc., AUN, Egypt
2015–2020	<b>Yomna Mohammad</b> Pattern Discovery in Time Series	M.Sc., AUN, Egypt
2019–2022	<b>Niang Yo</b> Design of AI agent for Supply Chain Management using Deep Reinforcement Learning	M.Sc., Fraunhofer, ISC, Germany
2019–2022	<b>Alyaa Sabra</b> Feature Selection for Face Recognition	M.Sc., AUN, Egypt
2019–2022	<b>Zaynab Ashraf</b> Text Mining tool for Genome Scale Metabolic Model	M.Sc., AUN, Egypt
2021–	<b>Abdallah Ahmed</b> Deep Learning for Robot Navigation in Dynamic Environments	M.Sc., EJUST, Egypt

# Funded Projects

May 2014 Investigator Japan	<b>Theoretical Framework for Interactive Game Design</b> <b>Aerospace Research and Development (AFOSR/AOARD)</b> To establish a theoretical framework for achieving content-rich, proficient and reliable communication between people and robots.	>10M JPY
Sep 2012 PI Japan	<b>Fluid Imitation Learning</b> <b>Japanese Society for Promotion of Science</b> To design, implement and evaluate an imitation engine for humanoid robots that achieves fluid imitation by autonomously discovering interesting motions to imitate during its interaction with humans.	2.5M JPY
Nov 2008 PI Japan	<b>Grounded Action Segmentation and Association</b> <b>Global Centre of Excellence Young Researcher Program, Kyoto University</b> To build and evaluate an unsupervised algorithm for learning interactive behavior both in implicit and explicit nonverbal communication settings.	1M JPY
Dec 2007 PI Japan	<b>Natural Listening for a Humanoid Robot</b> <b>Global Centre of Excellence Young Researcher Program, Kyoto University</b> To design and implement a learning system that can help the robot achieve natural listening behavior in an automatic way.	1.5M JPY

## References

Brown Univ., USA     **Amy Greenwald**  
amy\_greenwald@brown.edu

Professor

MIT, USA     **Mark Klein**  
m\_klein@mit.edu

Senior Research Scientist

Fukuchiyama Univ., Japan     **Toyoaki Nishida**  
toyoaki.nishida@fukuchiyama.ac.jp

Dean of the Faculty of Informatics

# Patents

US17/388,004 Application	<b>Negotiation method including elicitation and system for implementing</b> A system for negotiation under uncertainty with elicitation-during-negotiation support using Value of Information concept (50%)	USA 2022
JP6838259B2 Granted	<b>Learning data generator, judgment device and program</b> A method for training multiple pipelines of convolutional neural networks to achieve high accuracy in activity recognition (90%)	Japan 2021
JP6754343B2 Granted	<b>Neural network regulators, devices and programs</b> A method for compression neural networks (convolutional or otherwise) based on novel application of feature selection techniques (90%)	Japan 2020
US17/184,590 Application	<b>Adaptive Autonomous Negotiation Method and System of Using</b> A new automated negotiation method that can generalize along negotiation domains and opponents (30%)	USA 2021
PCT/JP2020-029145 Application	<b>Policy Generation Apparatus, Control Method, and Non Transitory Computer-Readable Storage Medium</b> A method for concurrent negotiation proven to be optimal against opponents with static acceptance models (100%).	PCT 2020

## Publications and Talks

### Tutorials

1. [2023] Automated Negotiation in Supply Chains, **Yasser Mohammad**, IEEE International Conference on Agents (ICA), Kyoto, Japan.
2. [2023] Reinforcement Learning for Automated Negotiation, **Yasser Mohammad**, Australasian Joint Conference on Artificial Intelligence (AJCAI), Brisbane, Australia.
3. [2022] Automated Negotiation: Challenges and Tools, **Yasser Mohammad** and Amy Greenwald, The 36th AAI Conference on Artificial Intelligence, Vancouver, Canada
4. [2020] Automated Negotiation in Supply Chain Management, **Yasser Mohammad**, The 23rd International Conference on Principles and Practice of Multi-Agent Systems, Nagoya, Japan
5. [2019] Automated Negotiation: Challenges and Tools, **Yasser Mohammad**, The 22nd International Conference on Principles and Practice of Multi-Agent Systems, Torino, Italy

### Invited Talks

6. [2022] Generalized Bargaining Mechanisms: Mechanism Design for Automated Negotiation, IBM/DIMACS Workshop on Bridging Game Theory and Machine Learning for Multi-party Decision Making, October 27-28, New Jersey, USA.
7. [2022] Concurrent Negotiation in Supply Chains: Problems, Solutions and Challenges, The 13th International Workshop on Agent-based Complex Automated Negotiations in conjunction with the 31st International Joint Conference on Artificial Intelligence, Vienna, Austria.
8. [2018] Analysis and commentary on PRIANAC and ANAC, Pacific Rim International Automated Negotiation Agents Competition (PRIANAC) in conjunction with PRIMA , Tokyo, Japan.
9. [2018] Fluid Imitation, Human-Robot Interaction: From Service to Industry (HRI-SI2018) part of IEEE ROMAN 2018, Nanjing, China.
10. [2012] SSA application to motif discovery and causality analysis in robotics, Third International Conference on SSA and its applications, Beijing, China, May 17th-May 20th.

### Books

11. [2016] **Yasser Mohammad** and Toyooki Nishida, Data Mining for Social Robotics, Springer, ISBN 978-3-319-25230-8.
12. [2014] T. Nishida, A. Nakazawa, Y. Ohmoto, **Y. Mohammad**, Conversational Informatics: A data intensive approach with emphasis on Nonverbal Communication, Springer, ISBN 978-4431550396.

### International Journals

13. [2023] An octopamine receptor involved in feeding behavior of the two-spotted spider mite, *Tetranychus urticae* Koch: a possible candidate for RNAi-based pest contro, Faten Abdelsalam Hamdi, Kosuke Kataoka, Yuka Arai, Naoki Takeda, Masanobu Yamamoto, **Yasser F. O. Mohammad**, Noureldin Abuelfadl Ghazy, Takeshi Suzuki, *Entomologia Generalis*, February 9th, 2023
14. [2022] Optimal Time-based Strategy for Automated Negotiation, **Yasser Mohammad** and Shinji Nakadai, *Applied Intelligence*, July, 2022.
15. [2021] Concurrent Local Negotiations with a Global Utility Function: A Greedy Approach, **Yasser Mohammad**, *Autonomous Agents and Multiagent Systems*, 35(28).
16. [2020] Supply Chain Management League(SCML) — Automated Negotiating Agent Competition for Manufacturing Value Chain, **Yasser Mohammad**, Shinji Nakadai, Satoshi Morinaga, Katsuhide Fujita, *JSAI Journal Vol 35 No 3*, May 2020

17. [2019] Selecting orientation-insensitive features for activity recognition from accelerometers, **Mohammad, Y.**, Matsumoto, K., Hoashi, K. *IEICE Transaction on Information and Systems*, 102(1), 104-115.
18. [2018] Primitive activity recognition from short sequences of sensory data, **Y. Mohammad**, K Matsumoto, K Hoashi - *Applied Intelligence*,
19. [2016] Exact multi-length scale and mean invariant motif discovery, **Yasser Mohammad** and Toyoaki Nishida, *Applied Intelligence*, vol.44, no.2, pp. 322-339, March
20. [2015] Learning interaction protocols by mimicking: Understanding and reproducing human interactive behavior, **Yasser Mohammad** and Toyoaki Nishida, *Pattern Recognition Letters*, vo. 66, no. 15, pp. 62-70, November
21. [2015] Why should we imitate robots? Effect of back imitation on judgment of imitation skill, **Yasser Mohammad** and Toyoaki Nishida, *International Journal on Social Robotics*, vol.7, no.4, pp. 497-512, August
22. [2015] Shift Density Estimation based Approximately Recurring Motif Discovery, **Yasser Mohammad** and Toyoaki Nishida, *International Journal of Applied Intelligence*, vol. 42, no. 1, pp. 112-134, January
23. [2013] Learning where to look: Autonomous Development of Gaze Behavior for Natural Human-Robot Interaction, **Yasser Mohammad** and Toyoaki Nishida, *International Journal of Interaction Studies*, Springer, no. 32, pp. 419-450. .
24. [2012] Fluid Imitation: Learning from Unplanned Demonstrations, **Yasser Mohammad** and Toyoaki Nishida, *International Journal of Social Robotics*, vol. 4, pp 369-382,
25. [2010] Using Physiological Signals to Detect Natural Interactive Behavior, **Yasser Mohammad** and Toyoaki Nishida, *Applied Intelligence*, vol. 13, no. 1, pp. 79-92,
26. [2010] Controlling Gaze with an Embodied Interactive Control Architecture, **Yasser Mohammad** and Toyoaki Nishida, *International Journal of Applied Intelligence*, Vol. 32, No. 2, pp 148-163,
27. [2009] Constrained Motif Discovery in Time Series, **Yasser Mohammad** and Toyoaki Nishida, *New Generation Computing Journal*, vol. 27, pp. 319-346,
28. [2009] Towards Combining Autonomy with Interaction for Social Robots, **Yasser Mohammad** and Toyoaki Nishida, *AI & Society*, vol. 24, no. 1, pp 35-53,
29. [2009] Interactive Perception for amplification of intended behavior in complex noisy environment, **Yasser Mohammad** and Toyoaki Nishida, *AI & Society Journal*, vol. 23, no. 2, pp 167-186, March
30. [2008] Interaction Between Untrained Users and a Miniature Robot in a Collaborative Navigation Controlled Experiment, **Yasser Mohammad** and Toyoaki Nishida, *International Journal of Information Acquisition*, World Scientific Publishing Company. Vol. 5, No. 4, pp 291-308, April
31. [2006] Towards Robots as an Embodied Knowledge Medium, Toyoaki Nishida, Kazunori Terada, Takashi Tajima, Makoto Hatakeyama, Yoshiyasu Ogasawara, Xu Yong, **Yasser Mohammad**, Kateryna Tarasenko, Taku Ohya, and Tatsuya Hiramatsu, *IEICE Trans. On Inf. & Sys.*, vol. E89-D, No 6, pp. 1768-1780, June

## International Conferences

32. [2023] Evaluating Automated Negotiations, **Yasser Mohammad**, *IEEE International Conference on Agents (ICA)*, December 2023, Kyoto, Japan [Best Paper Award].
33. [2023] Generalized Bargaining Protocols: Mechanism Design for Automated Negotiations, **Yasser Mohammad**, *Australasian Joint Conference on Artificial Intelligence*, November 2023, Brisbane, Australia.
34. [2022] End-to-End Mobile Robot Navigation using a Residual Deep Reinforcement Learning in Dynamic Human Environments, Abdullah Ahmed, **Yasser Mohammad**, Victor Parque, Haitham El-Hussieny and Sabah Ahmed, *18th IEEE/ASME International Conference on Mechatronic, Embedded Systems and Applications (MESA)*, November 2022, Taipei, Taiwan
35. [2022] Transfer Learning based Adaptive Automated Negotiating Agent Framework, Ayan Sengupta, **Yasser Mohammad**, Shinji Nakadai, *The 31st International Joint Conference on Artificial Intelligence (IJCAI 2022)*, pp. 1163-1172, July 2022, Vienna, Austria
36. [2022] Concurrent Negotiations with Local Utility Functions , **Yasser Mohammad**, Shinji Nakadai, *The 21st International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*, London, UK, May.
37. [2022] Applying Generative Adversarial Networks and Vision Transformers in Speech Emotion Recognition, Panikos Heracleous, Satoru Fukayama, Wei Yang, Jun Ogata, **Yasser Mohammad**, *24th International Conference on Human-Computer Interaction (HCI 2022 International)*, June 26 – July 1st, Cothornbury, Sweden.
38. [2021] An Autonomous Negotiating Agent Framework with Reinforcement Learning Based Strategies and Adaptive Strategy Switching Mechanism, Ayan Sengupta, **Yasser Mohammad**, Shinji Nakadai, *The 20th International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*, London, UK, May.
39. [2021] Speech Emotion Recognition Using Combined Multiple Pairwise Classifiers, Panikos Heracleous, **Yasser Mohammad**, Akio Yoneyama, *22nd International Conference On Human-Computer Interaction*, Copenhagen, July.
40. [2020] Optimal Deterministic Time-dependent Policy in Automated Negotiation, **Yasser Mohammad**, *The 23rd International Conference on Principles and Practice of Multi-Agent Systems (PRIMA)*, Nagoya, Japan, November [Best Paper Runner].
41. [2020] NegMAS: A platform for Automated Negotiations, **Yasser Mohammad**, Shinji Nakadai, and Amy Greenwald, *The 23rd International Conference on Principles and Practice of Multi-Agent Systems (PRIMA)*, Nagoya, Japan, November.
42. [2020] Integrating Language and Emotion Features for Multilingual Speech Emotion Recognition, Panikos Heracleous, **Yasser Mohammad**, Akio Yoneyama, *22nd International Conference On Human-Computer Interaction*, Copenhagen, Denmark, July.
43. [2020] An Empirical Study On Feature Extraction In DNN-Based Speech Emotion Recognition, Panikos Heracleous, Kohichi Takai, Yanan Wang, Keiju Yasuda, Akio Yoneyama, **Yasser Mohammad**, *22nd International Conference On Human-Computer Interaction*, Copenhagen, Denmark, July.
44. [2019] Empirical Mechanism Design under Uncertainty, Enrique Areyan Viqueira, Amy Greenwald, **Yasser Mohammad**, *Uncertainty in AI*.
45. [2019] Research Challenges for the Automated Negotiating Agents Competition (ANAC) , Reyhan Aydoğan, Tim Baarslag, Katsuhide Fujita, Johnathan Mell, Jonathan Gratch, Dave De Jonge, **Yasser Mohammad**, Shinji Nakadai, Satoshi Morinaga, Hirotaka Osawa, Claus Aranha and Catholijn Jonker, *EUMAS AT 2020*
46. [2019] Optimal Value of Information Based Elicitation During Negotiation, **Yasser Mohammad** and Shinji Nakadai, *AAMAS* , Montreal, Canada pp. 242-250
47. [2019] Multidimensional Permutation Entropy for Constrained Motif Discovery, Yomna Rayan, **Yasser F. O. Mohammad**, Samia A. Ali, *ACIIDS 231-243*

48. [2019] Speech emotion recognition using spontaneous children's corpus, Heracleous P., **Mohammad Y.**, Yasuda K., Yoneyama A. , CICLing 2019, La Rochelle, France, April.
49. [2018] Comparative Study on Spoken Language Identification Based on Deep Learning,, Heracleous, P., Takai, K., Yasuda, K., **Mohammad, Y.**, and Yoneyama, A., In 2018 26th European Signal Processing Conference (EUSIPCO) (pp. 2265-2269). IEEE.
50. [2018] Deep feature learning and selection for activity recognition, (, April), **Y. Mohammad**, K. Matsumoto, K. Hoashi, In Proceedings of the 33rd Annual ACM Symposium on Applied Computing (pp. 930-939). ACM.
51. [2018] FastVOI: Ecient Utility Elicitation During Negotiations, **Yasser Mohammad** and Shinji Nakadai, PRIMA , October 2018, Tokyo, Japan
52. [2018] Utility Elicitation During Negotiation with Practical Elicitation Strategies, **Yasser Mohammad** and Shinji Nakadai, IEEE International Conference on Systems, Man, and Cybernetics (IEEE SCM), Miyazaki, Japan, October 7-10.
53. [2018] Deep feature learning and selection for activity recognition, **Yasser Mohammad**, Kazunori Matsumoto, and Keiichiro Hoashi, In Proceedings of the 33rd Annual ACM Symposium on Applied Computing (SAC '18), pp. 930-939, New York, NY, USA, .
54. [2018] Comparative Study on Spoken Language Identification Based on Deep Learning, Panikos Heracleous, Kohichi Takai and Keiji Yasuda, **Yasser Mohammad**, Akio Yoneyama, 26th European Signal Processing Conference (EUSIPCO) , Rome, Italy, September 3-7, 2018
55. [2018] I-vectors and Deep Convolutional Neural Networks for Language Identification in Clean and Reverberant Environments, Panikos Heracleous, **Yasser Mohammad**, Akio Yoneyama, International Conference on Computational Linguistics and Intelligent Text Processing (CICLing), March 18 to 24, • Hanoi, Vietnam
56. [2018] Spoken Language Identification Based on I-vectors and Conditional Random Fields, Panikos Heracleous, **Yasser Mohammad**, Akio Yoneyama, 14th International Wireless Communications and Mobile Computing Conference IWCMC , Limassol, Cyprus, June 25-29, 2018
57. [2017] A dataset for activity recognition in an unmodified kitchen using smart-watch accelerometers, **Yasser Mohammad**, Kazunori Matsumoto, and Keiichiro Hoashi, In Proceedings of the 16th International Conference on Mobile and Ubiquitous Multimedia (MUM '17). ACM, New York, NY, USA, 63-68, .
58. [2017] COLD: A ROS Package for Continuous Learning from Demonstration: teaching a robot to write, Mostafa Hussein, **Yasser Mohammad**, Samia Ali, Toyoaki Nishida, IEEE International Conference on Mechatronics and Automation ICMA , pp. 651-657, Takamatsu, Japan,
59. [2016] MC2: An integrated toolbox for change, causality, and motif discovery, **Yasser Mohammad** and Toyoaki Nishida, IEA/AIE, August , pp. 128-141, Morioka, Japan
60. [2015] Learning From Demonstration Using Variational Bayesian Inference, Mostafa Hussein, **Yasser Mohammad**, and Samia A. Ali, First International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems IEA/AIE, pp. 371-381, Seoul, Korea,
61. [2015] Synthetic Evidential Study as Augmented Collective Thought Process – Preliminary Report, Toyoaki Nishida, Masakazu Abe, Takashi Ookaki, Divesh Lala, Sutasinee Thovuttikol, Hengjie Song, **Yasser Mohammad**, Christian Nitschke, Yoshimasa Ohmoto, Atsushi Nakazawa, Takaaki Shochi, Jean-Luc Rouas, Aurelie Bugeau, Fabien Lotte, Zuheng Ming, Geoffrey Letournel, Marine Guerry and Dominique Fourer, 7th Asian Conference on Intelligent Information and Database systems (ACIIDS), pp. 13-22, Indonesia,
62. [2015] Simple Incremental GMM Modeling using Multidimensional Piecewise Linear Segmentation for Learning from Demonstration, **Yasser Mohammad** and Toyoaki Nishida, 3rd International Conference on Industrial Application Engineering (ICIAE), Japan, (**Best Presentation Award**)
63. [2014] Robust Learning from Demonstrations using Multidimensional SAX, **Yasser Mohammad** and Toyoaki Nishida, International Conference on Control, Automation, and Systems , pp. 64-71, Korea (September 22-26, 2014), (**Outstanding Paper Award**)
64. [2014] Scale Invariant Multi-length Motif Discovery, **Yasser Mohammad** and Toyoaki Nishida, The 27th International Conference on Industrial, Engineering and Other Applications of Applied Intelligent Systems, pp. 417-426, Kaohsiung, Taiwan,
65. [2014] Exact Motif Discovery of Length-Range Motifs, **Yasser Mohammad**, Toyoaki Nishida, and Atsushi Nakazawa, The 6th Asian Conference on Intelligent Information and Database Systems (ACIIDS), pp. 23-32 , Bangkok, Thailand
66. [2014] Why should we imitate robots?, **Yasser Mohammad** and Toyoaki Nishida, 13th International Conference on Autonomous Agents and Multiagents Systems (AAMAS), pp. 1499-1500, [extended abstract]
67. [2014] A joint activity theory analysis of body interactions in multiplayer virtual basketball, Divesh Lala, **Yasser Mohammad**, Toyoaki Nishida, Proceedings of the 28th International BCS Human Computer Interaction Conference on HCI, pp. 62-71, .
68. [2014] Detection of Hidden Laughter for Human-agent Interaction, Shiho Tatsumi, **Yasser Mohammad**, Yoshimasa Ohmoto, Toyoaki Nishida, Knowledge-Based and Intelligent Information & Engineering Systems 18th Annual Conference, pp. 1053-1062 Gdynia, Poland, September 15-17,
69. [2013] Arm Pose Copying for Humanoid Robots, **Yasser Mohammad**, Toyoaki Nishida, and Atsushi Nakazawa, IEEE International Conference on Robotics and Biomimetics, ROBIO , Shenzhen, China, 2013
70. [2013] Unsupervised gesture recognition system for learning manipulative actions in virtual basketball, Divesh Lala, Toyoaki Nishida, and **Yasser Mohammad**, International Conference on Human-Agent Interaction iHAI, pp. II-1-3,
71. [2013] Tackling the Correspondence Problem: Exact solution for a Humanoid Upper Body?, **Yasser Mohammad**, Toyoaki Nishida, International Conference on Active Media Technology , pp. 84-95, Maebashi, Japan, 2013
72. [2013] Approximately Recurring Motif Discovery Using Shift Density Estimation, **Yasser Mohammad**, Toyoaki Nishida, International Conference on Industrial, Engineering, Other Applications of Applied Intelligent Systems IEA/AIE , pp. 141-150, 2013
73. [2013] Learning Sensorimotor Concepts Without Reinforcement, **Yasser Mohammad**, Toyoaki Nishida, AAAI Summer Symposium on Life Long Machine Learning , Stanford, USA
74. [2012] Unsupervised Discovery of Basic Human Actions from Activity Recording Datasets, **Yasser Mohammad**, Toyoaki Nishida, IEEE/SICE International Symposium on System Integration, pp. 402-409, Kyushu, Japan,
75. [2012] Self-Initiated Imitation Learning Discovering what to imitate, **Yasser Mohammad**, Toyoaki Nishida, International Conference on Control, Automation and Systems , pp. 726-732, Jeju, South Korea, 2012
76. [2012] G-SteX: Greedy Stem Extension for Free-Length Constrained Motif Discovery, **Yasser Mohammad**, Toyoaki Nishida, International Conference on Industrial, Engineering, Other Applications of Applied Intelligent Systems IEA/AI, pp. 417-426,

77. [2012] Common Sensorimotor Representation for Self-Initiated Imitation Learning, **Yasser Mohammad**, Toyoaki Nishida, International Conference on Industrial, Engineering, Other Applications of Applied Intelligent Systems IEA/AIE, pp. 381-390,
78. [2012] CPMD: A Matlab Toolbox for Change Point and Constrained Motif Discovery, **Yasser Mohammad**, Toyoaki Nishida, International Conference on Industrial, Engineering, Other Applications of Applied Intelligent Systems IEA/AIE, pp. 114-123,
79. [2011] Discovering Causal Change Relationships Between Processes in Complex Systems, **Yasser Mohammad**, Toyoaki Nishida, IEEE/SICE International Symposium on System Integratio, pp. 12-17,
80. [2011] On Comparing SSA-based Change Point Discovery Algorithms, **Yasser Mohammad**, Toyoaki Nishida, IEEE/SICE International Symposium on System Integration, pp. 938-945, **(Best Paper Award)**
81. [2010] Incremental Gesture Discovery for Interactive Robots, **Yasser Mohammad**, Toyoaki Nishida, IEEE International Conference on Robotics and Biomimetics ROBIO , pp. 185-189, Tianjin, China,
82. [2010] Learning Interaction Protocols using Augmented Bayesian Networks Applied to Guided Navigation, **Yasser Mohammad**, Toyoaki Nishida, Taipei, Taiwan, IEEE/RSJ International Conference on Intelligent Robots and Systems IROS, pp. 4119-4126,
83. [2010] Learning Spontaneous Nonverbal Behavior using a Three Layers Hierarchy, **Yasser Mohammad**, Toyoaki Nishida, 10th WSEAS International Conference on Applied Computer Science, pp. 430-435, Iwate, Japan, October
84. [2010] Down-Up-Down Behavior Generation for Interactive Robots, **Yasser Mohammad**, Toyoaki Nishida, The Twenty Third International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA/AIE ), pp. 92-101, Spain, June 2010
85. [2009] Unsupervised Simultaneous Learning of Gestures, Actions and their Associations for Human-Robot Interaction, **Yasser Mohammad**, Toyoaki Nishida, and Okada Shogo, IEEE/RSJ International Conference on Intelligent Robots and Systems IROS , pp. 2537-2544, October 11 to 15, MO, USA, 2009
86. [2009] Robust Singular Spectrum Transform, **Yasser Mohammad**, Toyoaki Nishida, the Twenty Second International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA/AIE ), pp. 123-132, Taiwan, June 2009
87. [2009] Measuring Naturalness During Close Encounters Using Physiological Signal Processing, **Yasser Mohammad**, Toyoaki Nishida, Twenty Second International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA/AIE ), pp. 281-290, Taiwan, June 2009 **(Best Paper Award)**
88. [2009] Learning Interaction Structure using a Hierarchy of Dynamical Systems, **Yasser Mohammad**, Toyoaki Nishida, Twenty Second International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA/AIE ), pp 253-258, Taiwan, June 2009
89. [2008] The H3R Explanation Corpus: Human-Human and Base Human-Robot Interaction Dataset, **Yasser Mohammad**, Yong Xu, Kenichi Matsumura, and Toyoaki Nishida, The Fourth International Conference on Intelligent Sensors, Sensor Networks and Information Processing (ISSNIP), pp. -206, Sydney, Australia, December.
90. [2008] Constrained Motif Discovery, **Yasser Mohammad**, Toyoaki Nishida, International Symposium on Data Mining and Statistical Science, Tokyo, Japan, pp. 16-19, September
91. [2008] Human Adaptation to a Miniature Robot: Precursors of Mutual Adaptation, **Yasser Mohammad**, Toyoaki Nishida, In Proceedings of IEEE 17th International Symposium on Robot and Human Interactive, pp. 124-129, Munich, Germany,
92. [2008] Getting Feedback from a Miniature Robot, **Yasser Mohammad**, Toyoaki Nishida, In Proceedings of IEEE International Conference on Informatics in Automation (ICIA ), pp.941-947, China, June 2008
93. [2008] Reactive Gaze Control for a Humanoid Robot, **Yasser Mohammad**, Toyoaki Nishida, In Proceedings of IEEE International Conference on Robotics and Mechatronics (RAM ), pp. 47-54, China, September 2008
94. [2008] A Cross-Platform Robotic Architecture for Autonomous Interactive Robots, **Yasser Mohammad**, Toyoaki Nishida, New Trends in Artificial Intelligence (The Twenty First International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA/AIE ), pp 108-117, Poland, 2008 **(Best Paper Award)**
95. [2007] Intention Through Interaction: Toward Mutual Intention in Real World Interactions, **Yasser Mohammad**, Toyoaki Nishida, New Trends in Artificial Intelligence (Proceedings of IEA/AIE , Kyoto, Japan), pp. 115-125, 2007
96. [2008] Two Layers Action Integration for HRI: Action Integration with Attention Focusing for Interactive Robots, **Yasser Mohammad**, Toyoaki Nishida, In Proceedings of the International Conference on Informatics in Control, Automation & Robotics (ICINCO ),pp. 41-48, Funchal, Maderia, Portugal, May 2008
97. [2008] Natural Listening for a Humanoid Robot, **Yasser Mohammad**, Toyoaki Nishida, In Proceedings of the International Conference on Informatics Education and Research for Knowledge-Circolating Society (ICKS 2008), IEEE Press, pp. 153-156.
98. [2007] TalkBack: Feedback from a Miniature Robot, **Yasser Mohammad**, Toyoaki Nishida, In AI Advances in Artificial Intelligence, 20th Australian Joint Conference on Artificial Intelligence, pp. 357-366, Gold Coast, Australia, December.
99. [2007] Embodiment of Knowledge into the Interaction and Physical Domains Using Robots, **Yasser Mohammad**, Taku Ohya, Tatsuya Hiramatsu, Yasuyuki Sumi, Toyoaki Nishida, In Proceedings of the International Conference on Control, Automation and Systems, pp. 737-744, Seool Korea, 17- October 2007
100. [2007] A New, HRI Inspired, View of Intention and Intention Communication, **Yasser Mohammad**, Toyoaki Nishida. In Proceedings of AAAI-07 WS-06 Human Implications of Human-Robot Interactions Workshop, pp 21-27, (Joly 22-Joly 28, Vancouver, Canada),
101. [2007] EICA: Combining Autonomy with Interaction for Social Robots, **Yasser Mohammad**, Toyoaki Nishida. In Proceedings of Social Intelligence Development Workshop (SID07), (Joly 2-4, Trento), 2007, pp 227-236
102. [2007] NaturalDraw: Interactive Perception Based Drawing for Everyone, **Yasser Mohammad**, Toyoaki Nishida. Proceedings of the 12th international conference on Intelligent user interfaces (IUI), pp. 251-260, January 27-January 31, Honolulu, Hawaii, USA, 2007
103. [2006] Interactive Perception for amplification of intended behavior in complex noisy environment, **Yasser Mohammad**, Toyoaki Nishida. In Proceedings of Social Intelligence Development Workshop (SID06, pp. 173 – 187), March 24-March 26, Osaka, Japan, 2006
104. [2003] Overcoming Kerberos Structural Limitations, **Yasser Mohammad**, Hany M. Harb, Yousef B. Mahdy, Montaser M. Mohammed, 38th Annual Conference of Statistics, Computer Sciences and Operations Research Proceedings , Cairo, Egypt, pp. 172-187

## Referred International Workshops

104. [2023] Tentative Acceptance Unique Offers Protocol for Automated Negotiation, **Yasser Mohammad**, 6th Games, Agents, and Incentives Workshop, In conjunction with AAMAS 2024.
105. [2021] Baseline Strategies for the ANAC Automated Negotiation League, Kotone Ninagawa and **Yasser Mohammad** and Amy Greenwald, 3rd Games, Agents, and Incentives Workshop, In conjunction with AAMAS 2021. PDF here.
106. [2019] NegMAS: A platform for situated negotiations, **Yasser Mohammad**, Shinji Nakadai, Amy Greenwald, Twelfth International Workshop on Agent-based Complex Automated Negotiations (ACAN) in conjunction with IJCAI 2019, Macau, August 2019
107. [2015] Cultural difference in back-imitation's effect on the perception of robot's imitative performance, **Yasser Mohammad** and Toyoaki Nishida, IEEE RO-MAN's workshop on Cultural Robotics, Kobe, Japan, August
108. [2015] Synthetic Evidential Study as Primordial Soup of Conversation, Toyoaki Nishida<sup>1</sup>, Atsushi Nakazawa, Yoshimasa Ohmoto, Christian Nitschke, **Yasser Mohammad**, Sutasinee Thovuttikol, Divesh Lala, Masakazu Abe, Takashi Ookaki, 10th International Workshop on Databases in Networked Information Systems (DNIS), pp. 74-83, Japan
109. [2014] Human-like motion of a humanoid in a shadowing task, **Yasser Mohammad** and Toyoaki Nishida, 5th International Workshop on Collaborative Robots and Human Robot Interaction (CR-HRI ), part of the 2014 International Conference on Collaboration Technologies and Systems (CTS 2014), pp. 123-130, Minneapolis, Minnesota, USA, 2014
110. [2013] What is human-like motion in a shadowing task?, **Yasser Mohammad**, Toyoaki Nishida, IEEE/RSJ International Conference on Intelligent Robots and Systems IROS Workshop: Towards social humanoid robots: how to make interaction human-like?, Tokyo, Japan, 2013
111. [2010] Unsupervised Learning of Interactive Behavior for HRI, **Yasser Mohammad**, Toyoaki Nishida, RSS Workshop on Learning for Human Robot Interaction Modeling, Zaragoza, Spain, June 2010
112. [2010] Autonomous Development of Gaze Control for Natural Human-Robot Interaction, **Yasser Mohammad**, Toyoaki Nishida, and Shogo Okada, ACM International Conference on Intelligent User Interfaces (IUI) workshop on Eye Gaze in Intelligent Human Machine Interaction, pp. 63-70.
113. [2008] Toward Learning Interactive Behavior, **Yasser Mohammad**, In Proceedings of IEEE ICRA NEWHRI workshop (May 2008), Pasadena, USA
114. [2008] Toward Agents that can Learn Nonverbal Interactive Behavior, **Yasser Mohammad**, Toyoaki Nishida, In Proceedings of IAPR Workshop on Cognitive Information Processing, pp. 164-169, Greece, June
115. [2008] Natural Listening Robot for AAL Applications, **Yasser Mohammad**, Toyoaki Nishida, In Proceedings of the first International Workshop on IUI for Ambient Assisted Living (IUI4AAL ) in conjunction with the IUI 2008 conference, Canary Islands, Spain, 2008

## Refereed Book Chapters

115. [2018] Natural HRI, **Yasser Mohammad**, Wiley handbook of HCI, ed. Kent L. Norman, Jurek Kirakowski, pp. 641-655, Wiley,
116. [2010] Modeling Interaction Dynamics during Face-to-Face Interactions, **Yasser Mohammad** and Toyoaki Nishida, in Modeling Emotions for Realizing Intelligence, ed. Toyoaki Nishida, Lakhmi Jain, Colette Faucher, Springer,
117. [2009] Mining Causal Relationships in Multidimensional Time Series: Combining Constrained Motif Discovery with Granger Causality, **Yasser Mohammad** and Toyoaki Nishida, in Intelligent Systems for Knowledge Management, ed. Ngoc Thanh Nguyen and Edward Szczerbicki, Studies in Computational Intelligence, Springer,
118. [2009] Learning Interaction Structure using a Hierarchy of Dynamical Systems, **Yasser Mohammad** and Toyoaki Nishida, In Opportunities and Challenges for Next-Generation Applied Intelligence, edited by Been-Chian Chien and Tzung-Peiong, Studies in Computational Intelligence, Springer, pp. 253-258, Springer, .

## Local Journals

119. [2022] Ashraf, Z. M., **Mohamed, Y. F.**, & Elsemman, I. E. (2022). Gemminer: Text Mining Tool for Genome-Scale Metabolic Model. Assiut University Journal of Multidisciplinary Scientific Research, 51(3), 358-373.
120. [2020] Face Recognition From Small Datasets Using Kernel Selection of Gabor Features, Alyaa A. S. Gad-Elrab, **Yasser F. O. Mohammad**, Moumen T. El-Melegy, Journal of Engineering Sciences, Assiut University, Faculty of Engineering 48(6), Nov. 2020, pp. 1051-1071.

## Others

121. [2018] Feature Selection Using Deep Neural Networks for Speech Emotion Recognition, Panikos Heracleous, **Yasser Mohammad**, Akio Yoneyama, Acoustical Society of Japan Autumn Meeting, Sep 12-14, Oita, Japan.
122. [2008] Mutual Intention in Human-Robot Teams, **Yasser Mohammad**, In Proceedings of First Egyptian Japanese International Symposium on Science and Technology (EJISST ), pp 122-122, Tokyo, Japan, June.