

## Prof. MEHMET HALİT S. OĞUZTÜZÜN

### Personal Information

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### International Researcher IDs

ScholarID: fsTmDVkAAAAJ

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Publons / Web Of Science ResearcherID: ABA-3509-2020

ScopusID: 24335821400

Yoksis Researcher ID: 183182

### Education Information

Doctorate, The University of Iowa, Department Of Computer Science, United States Of America 1985 - 1991

Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, Turkey  
1982 - 1984

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, Turkey  
1977 - 1982

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, A logical characterization of the observational equivalence of processes, The University Of Iowa, Department Of Computer Science, 1991

Postgraduate, Shrinkers: A Class of Recognizers for a Subclass of Context-Free Languages, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 1984

### Research Areas

Computer Sciences, Theoretical Computer Science, Formal Languages, Software, Software Engineering, Engineering and Technology

### Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 2015 -  
Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering,

2011 - 2015

Lecturer, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 2006 - 2011  
Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering,  
1992 - 2006

## Academic and Administrative Experience

Head of Department, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering,  
2018 - Continues

## Advising Theses

- OĞUZTÜZÜN M. H. S., Model management for hypothesis-driven simulation experiment workflows, Doctorate, S.ÇAM(Student), 2022
- OĞUZTÜZÜN M. H. S., Real-time object-oriented framework for fmi co-simulation, Postgraduate, M.Çam(Student), 2020
- OĞUZTÜZÜN M. H. S., Schedulability analysis of real-time multi-frame co-simulations on multi-core platforms, Doctorate, M.Uzair(Student), 2020
- OĞUZTÜZÜN M. H. S., Data sharing using mqtt and zigbee-based dds on resource-constrained contiki-based devices, Postgraduate, T.Yıldırım(Student), 2020
- OĞUZTÜZÜN M. H. S., A Dynamic Software Product Line for Remote Monitoring of Computer Systems, Postgraduate, G.ERDİL(Student), 2019
- OĞUZTÜZÜN M. H. S., CM2-based physical item hierarchy implementation for a product lifecycle management system, Postgraduate, D.Abadan(Student), 2019
- OĞUZTÜZÜN M. H. S., Multi-target implementation of a domain specific language for extended feature models, Postgraduate, G.Demirtaş(Student), 2018
- OĞUZTÜZÜN M. H. S., Multi-Target Implementation of a Domain Specific Language For Extended Feature Models, Postgraduate, G.DEMİRTAŞ(Student), 2018
- OĞUZTÜZÜN M. H. S., Dynamic constraint satisfaction algorithm for reconfiguration of feature models, Postgraduate, S.ENTEKHABI(Student), 2018
- OĞUZTÜZÜN M. H. S., Parallel resampling methods for particle filters on graphics processing unit, Doctorate, Ö.DÜLGER(Student), 2017
- OĞUZTÜZÜN M. H. S., Modeling and code generation for a reference software architecture for naval platform command and control systems, Postgraduate, N.KÜBRA(Student), 2017
- OĞUZTÜZÜN M. H. S., An object-oriented framework for functional mock-up interface co-simulation, Postgraduate, M.ASLAN(Student), 2016
- KARAGÖZ P., OĞUZTÜZÜN M. H. S., Spatiotemporal data mining for situation awareness in microblogs, Doctorate, Ö.ÖZDİKİŞ(Student), 2016
- OĞUZTÜZÜN M. H. S., SPARKS: A LANGUAGE FOR TEST SCRIPTING FOR INSTRUMENTATION SYSTEMS, Postgraduate, M.SAEEDİ(Student), 2015
- OĞUZTÜZÜN M. H. S., SCHMİDT Ş. E., RSAR: A layered software architecture for cyber-physical systems, Postgraduate, E.AKAGÜNDÜZ(Student), 2015
- SCHMİDT Ş. E., OĞUZTÜZÜN M. H. S., RSAR: a layered software architecture for cyber-physical systems /, Postgraduate, E.Akagündüz(Student), 2015
- ONUR E., OĞUZTÜZÜN M. H. S., Density estimation in large-scale wireless sensor networks, Postgraduate, A.EROĞLU(Student), 2015
- OĞUZTÜZÜN M. H. S., Sparks: a language for test process scripting for instrumentation systems, Postgraduate, M.Saedi(Student), 2015
- OĞUZTÜZÜN M. H. S., Functional mockup unit adaptation for HLA-compliant distributed simulation, Postgraduate, F.YILMAZ(Student), 2014

OĞUZTÜZÜN M. H. S., A methodology for cross-resolution modeling in DEVS using EVENT-B refinement, Doctorate, A.KARA(Student), 2014

BATMAZ İ., OĞUZTÜZÜN M. H. S., Metamodeling atomic models in discrete event system specification (DEVS) formalism using multivariate adaptive regression splines (MARS), Doctorate, C.DORUK(Student), 2014

OĞUZTÜZÜN M. H. S., A goal question metric based tool for goal oriented business process modeling, Postgraduate, B.MERAL(Student), 2014

OĞUZTÜZÜN M. H. S., Distributed discrete event simulation architecture with connectors, Postgraduate, İ.ÖZGÜR(Student), 2014

OĞUZTÜZÜN M. H. S., YAZICI A., Describing the software architecture of a multimedia data management system, Postgraduate, Ç.AVCI(Student), 2013

OĞUZTÜZÜN M. H. S., Feature modeling and automated analysis for an embedded software product family, Postgraduate, G.FEDAKAR(Student), 2013

DOĞRU A. H., OĞUZTÜZÜN M. H. S., Condition oriented enrichment approach in business rule management systems, Postgraduate, M.HALİL(Student), 2013

OĞUZTÜZÜN M. H. S., Oğuztüzün M., DDS based MIL-STD-1553B data bus interface simulation, Postgraduate, E.Deniz(Student), 2012

OĞUZTÜZÜN M. H. S., KARATAŞ A. S., An xml-based feature modeling language, Postgraduate, L.Nabdel(Student), 2011

OĞUZTÜZÜN M. H. S., Transforming mission space models to executable simulation models, Doctorate, G.Özhan(Student), 2011

OĞUZTÜZÜN M. H. S., Variable structure and dynamism extensions to a devts based modeling and simulation framework, Postgraduate, F.Deniz(Student), 2010

OĞUZTÜZÜN M. H. S., Ontology driven development for hla federates, Postgraduate, C.Fatma(Student), 2010

OĞUZTÜZÜN M. H. S., Goal oriented modeling of situation awareness in a command and control system, Postgraduate, H.Ali(Student), 2010

OĞUZTÜZÜN M. H. S., HLA fom development with model transformations, Postgraduate, A.Cem(Student), 2010

OĞUZTÜZÜN M. H. S., Analysis of extended feature models with constraint programming, Doctorate, A.Serkan(Student), 2010

OĞUZTÜZÜN M. H. S., Feature oriented domain specific language for dependency injection in dynamic software product lines, Postgraduate, O.Dayıbaş(Student), 2009

OĞUZTÜZÜN M. H. S., Dynamic model integration and 3d graphical interface for a virtual ship, Postgraduate, C.Alp(Student), 2008

OĞUZTÜZÜN M. H. S., Model-based approach to the federation object model independence problem, Postgraduate, M.Fatih(Student), 2007

OĞUZTÜZÜN M. H. S., Metamodeling for the HLA federation architectures, Doctorate, O.Topçu(Student), 2007

OĞUZTÜZÜN M. H. S., Model-based code generation for the high level architecture federates, Doctorate, B.Mehmet(Student), 2007

OĞUZTÜZÜN M. H. S., A metamodel for the high level architecture object model, Postgraduate, D.Çetinkaya(Student), 2005

OĞUZTÜZÜN M. H. S., Coordinate systems for a naval virtual environment, Postgraduate, A.Kılıç(Student), 2005

OĞUZTÜZÜN M. H. S., Specification and verification of confidentiality in software architectures, Doctorate, C.Ulu(Student), 2004

OĞUZTÜZÜN M. H. S., Deriving a dynamic programming algorithm for batch scheduling in the refinement calculus, Postgraduate, İ.Aktuğ(Student), 2003

OĞUZTÜZÜN M. H. S., Oğuztüzün M., Monitoring and checking of discrete event simulations, Postgraduate, B.Ulu(Student), 2003

OĞUZTÜZÜN M. H. S., Oğuztüzün M., Proof of the basic theorem on concept lattices in Isabelle/HOL, Postgraduate, B.Sertkaya(Student), 2003

**Published journal articles indexed by SCI, SSCI, and AHCI**

- I. **Uncertainty Calculation as a Service: Integrating Cloud-Based Microservices for Enhanced Calibration and DCC Generation**  
Çetinkaya A., Kaya M. C., Danaci E., Oğuztüzün M. H. S.  
SENSORS, vol.24, no.17, pp.1-24, 2024 (SCI-Expanded)
- II. **Data interoperability between DDS and HLA through a dynamically reconfigurable gateway**  
Kaya M. C., Cilden E., KARAMANLIOĞLU A., MURAT F., DOĞRU A. H., OĞUZTÜZÜN M. H. S.  
Software - Practice and Experience, vol.53, no.11, pp.2200-2221, 2023 (SCI-Expanded)
- III. **Uphill resampling for particle filter and its implementation on graphics processing unit**  
Dülger Ö., OĞUZTÜZÜN M. H. S., DEMİREKLER M.  
Parallel Computing, vol.115, 2023 (SCI-Expanded)
- IV. **HYPOTHESIS-DRIVEN SIMULATION EXPERIMENTS WITH AN EXTENSION TO SED-ML**  
Cam S., Oguztuzun H., Yilmaz L.  
INTERNATIONAL JOURNAL OF SIMULATION MODELLING, vol.21, no.1, pp.17-28, 2022 (SCI-Expanded)
- V. **Internet of Measurement Things Architecture: Proof of Concept with Scope of Accreditation**  
KAYA M. Ç., Nikoo M. S., Schwartz M. L., Oguztuzun H.  
SENSORS, vol.20, no.2, 2020 (SCI-Expanded)
- VI. **Predetermined Rollbacks: An extension to Time Warp for spatially parallel agent-based simulation**  
Gorur B. K., İMRE K. M., Oguztuzun H., Yilmaz L.  
SIMULATION MODELLING PRACTICE AND THEORY, vol.95, pp.60-77, 2019 (SCI-Expanded)
- VII. **On the use of model-driven engineering principles for the management of simulation experiments**  
Dayibas O., Oguztuzun H., Yilmaz L.  
JOURNAL OF SIMULATION, vol.13, no.2, pp.83-95, 2019 (SCI-Expanded)
- VIII. **Schedulability analysis of real-time multiframe cosimulations on multicore platforms**  
Ahsan M. U., Ozuztuzun H.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.27, no.5, pp.3599-3614, 2019 (SCI-Expanded)
- IX. **Internet of Measurement Things: Toward an Architectural Framework for the Calibration Industry**  
Nikoo M. S., KAYA M. Ç., Schwartz M. L., Oguztuzun H.  
INTERNET OF THINGS IN THE INDUSTRIAL SECTOR: SECURITY AND DEVICE CONNECTIVITY, SMART ENVIRONMENTS, AND INDUSTRY 4.0, pp.81-102, 2019 (SCI-Expanded)
- X. **Memory Coalescing Implementation of Metropolis Resampling on Graphics Processing Unit**  
Dulger O., Oguztuzun H., DEMİREKLER M.  
JOURNAL OF SIGNAL PROCESSING SYSTEMS FOR SIGNAL IMAGE AND VIDEO TECHNOLOGY, vol.90, no.3, pp.433-447, 2018 (SCI-Expanded)
- XI. **Usability evaluation of a web-based ontology browser: the case of TSONT**  
Karakuş Yilmaz T., DURAK U., Oguztuzun H., ÇAĞILTAY K.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.26, no.2, pp.1115-1128, 2018 (SCI-Expanded)
- XII. **A survey on location estimation techniques for events detected in Twitter**  
Ozdikis O., Oguztuzun H., Karagöz P.  
KNOWLEDGE AND INFORMATION SYSTEMS, vol.52, pp.291-339, 2017 (SCI-Expanded)
- XIII. **Evidential estimation of event locations in microblogs using the Dempster-Shafer theory**  
Ozdikis O., Oguztuzun H., Karagöz P.  
Information Processing and Management, vol.52, no.6, pp.1227-1246, 2016 (SCI-Expanded)
- XIV. **Dynamic simulation metamodeling using MARS: A case of radar simulation**  
Bozagac D., BATMAZ İ., Oguztuzun H.  
MATHEMATICS AND COMPUTERS IN SIMULATION, vol.124, pp.69-86, 2016 (SCI-Expanded)
- XV. **Attribute-based variability in feature models**  
Karatas A. S., Oguztuzun H.  
REQUIREMENTS ENGINEERING, vol.21, no.2, pp.185-208, 2016 (SCI-Expanded)
- XVI. **A Methodology for Resolution Mapping for Cross-Resolution Simulation using Event-B**

- Kara A., Oguztuzun H., Alpdemir M. N.  
COMPUTER JOURNAL, vol.58, no.11, pp.2804-2823, 2015 (SCI-Expanded)
- XVII. Indexing Fuzzy Spatiotemporal Data for Efficient Querying: A Meteorological Application**  
Sozer A., YAZICI A., Oguztuzun H.  
IEEE TRANSACTIONS ON FUZZY SYSTEMS, vol.23, no.5, pp.1399-1413, 2015 (SCI-Expanded)
- XVIII. Transformation of Conceptual Models to Executable High-Level Architecture Federation Models**  
Ozhan G., Oguztuzun H.  
CONCEPTS AND METHODOLOGIES FOR MODELING AND SIMULATION: A TRIBUTE TO TUNCER OREN, pp.135-173, 2015 (SCI-Expanded)
- XIX. From extended feature models to constraint logic programming**  
KARATAS A. S., Oguztuzun H., Dogru A. H.  
SCIENCE OF COMPUTER PROGRAMMING, vol.78, no.12, pp.2295-2312, 2013 (SCI-Expanded)
- XX. Layered simulation architecture: A practical approach**  
Topcu O., Oguztuzun H.  
SIMULATION MODELLING PRACTICE AND THEORY, vol.32, pp.1-14, 2013 (SCI-Expanded)
- XXI. Modeling Product Line Software Assets Using Domain-Specific Kits**  
ALTINTAS N. I., CETIN S., Dogru A. H., Oguztuzun H.  
IEEE TRANSACTIONS ON SOFTWARE ENGINEERING, vol.38, no.6, pp.1376-1402, 2012 (SCI-Expanded)
- XXII. Supporting dynamic simulations with Simulation Modeling Architecture (SiMA): a Discrete Event System Specification-based modeling and simulation framework**  
Deniz F., Alpdemir M. N., Kara A., Oguztuzun H.  
SIMULATION-TRANSACTIONS OF THE SOCIETY FOR MODELING AND SIMULATION INTERNATIONAL, vol.88, no.6, pp.707-730, 2012 (SCI-Expanded)
- XXIII. Towards interoperable and composable trajectory simulations: an ontology-based approach**  
Durak U., Oguztuzun H., Algin C. K., Ozdakis O.  
JOURNAL OF SIMULATION, vol.5, no.3, pp.217-229, 2011 (SCI-Expanded)
- XXIV. Model-based code generation for HLA federates**  
Adak M., Topcu O., Oguztuzun H.  
SOFTWARE-PRACTICE & EXPERIENCE, vol.40, no.2, pp.149-175, 2010 (SCI-Expanded)
- XXV. Querying Fuzzy Spatiotemporal Databases: Implementation Issues**  
Soezer A., YAZICI A., Oguztuzun H., Petry F. E.  
UNCERTAINTY APPROACHES FOR SPATIAL DATA MODELING AND PROCESSING: A DECISION SUPPORT PERSPECTIVE, vol.271, pp.97-116, 2010 (SCI-Expanded)
- XXVI. ONTOLOGY-BASED DOMAIN ENGINEERING FOR TRAJECTORY SIMULATION REUSE**  
Durak U., Oguztuzun H., Ider S. K.  
INTERNATIONAL JOURNAL OF SOFTWARE ENGINEERING AND KNOWLEDGE ENGINEERING, vol.19, no.8, pp.1109-1129, 2009 (SCI-Expanded)
- XXVII. Metamodeling live sequence charts for code generation**  
Topcu O., Adak M., Oguztuzun H.  
SOFTWARE AND SYSTEMS MODELING, vol.8, no.4, pp.567-583, 2009 (SCI-Expanded)
- XXVIII. Modeling and querying fuzzy spatiotemporal databases**  
Soezer A., YAZICI A., Oguztuzun H., Tas O.  
INFORMATION SCIENCES, vol.178, no.19, pp.3665-3682, 2008 (SCI-Expanded)
- XXIX. A metamodel for federation architectures**  
Topcu O., Adak M., Oguztuzun H.  
ACM TRANSACTIONS ON MODELING AND COMPUTER SIMULATION, vol.18, no.3, 2008 (SCI-Expanded)
- XXX. Ontology-based trajectory simulation framework**  
Durak U., Oguztuzun H., Ider S. K.  
JOURNAL OF COMPUTING AND INFORMATION SCIENCE IN ENGINEERING, vol.8, no.1, 2008 (SCI-Expanded)
- XXXI. Developing an HLA-based naval maneuvering simulation**  
Topcu O., Oguztuzun H.

- NAVAL ENGINEERS JOURNAL, vol.117, no.1, pp.23-40, 2005 (SCI-Expanded)
- XXXII. **Multilevel graph partitioning: an evolutionary approach**  
Kucupetek S., Polat F., Oguztuzun H.  
JOURNAL OF THE OPERATIONAL RESEARCH SOCIETY, vol.56, no.5, pp.549-562, 2005 (SCI-Expanded)
- XXXIII. **Proof of the basic theorem on concept lattices in Isabelle/HOL**  
Sertkaya B., Oguztuzun H.  
COMPUTER AND INFORMATION SCIENCES - ISCIS 2004, PROCEEDINGS, vol.3280, pp.976-985, 2004 (SCI-Expanded)
- XXXIV. **A FRAGMENT OF 1ST-ORDER LOGIC ADEQUATE FOR OBSERVATION EQUIVALENCE**  
OGUZTUZUN H.  
LECTURE NOTES IN COMPUTER SCIENCE, vol.626, pp.278-292, 1992 (SCI-Expanded)

## Articles Published in Other Journals

- I. **UNCERTAINTY EVALUATION USING LAW OF PROPAGATION AND MONTE CARLO SIMULATION METHODS WITH THE AUTORPOWER MEASUREMENT SOFTWARE**  
Danacı E., Kartal Doğan A., Çiçek E. C., Çetinkaya A., Kaya M. Ç., Oğuztüzün M. H. S., Tünay G.  
Konya mühendislik bilimleri dergisi (Online), vol.12, no.3, pp.596-607, 2024 (Peer-Reviewed Journal)
- II. **Incremental clustering with vector expansion for online event detection in microblogs**  
Ozdikis O., KARAGÖZ P., Oguztuzun H.  
SOCIAL NETWORK ANALYSIS AND MINING, vol.7, no.1, 2017 (ESCI)
- III. **Dynamic and context based interoperability to support infrastructure management in municipalities**  
TUFAN E., OĞUZTÜZÜN M. H. S., AKYÜREK S. Z.  
Journal of the Urban and Regional Information Systems Association, vol.26, no.2, pp.33-49, 2015 (Scopus)
- IV. **DDS based MIL-STD-1553B Data Bus interface simulation**  
Deniz E., Durak U., Guclu K., Oguztuzun H.  
JOURNAL OF DEFENSE MODELING AND SIMULATION-APPLICATIONS METHODOLOGY TECHNOLOGY-JDMS, vol.12, no.2, pp.179-188, 2015 (ESCI)
- V. **Dynamic and context-based GIS interoperability to support infrastructure management in municipalities**  
Emrah T., AKYÜREK S. Z., OĞUZTÜZÜN M. H. S.  
URISA Journal, vol.26, no.2, pp.33-50, 2015 (Scopus)
- VI. **Feature Modeling and Automated Analysis for a Digital Television Product Family**  
Fedakar Gönül G., OĞUZTÜZÜN M. H. S., KARATAŞ A. S.  
International Journal of Computer and Electrical Engineering, vol.6, no.4, pp.358-364, 2014 (Scopus)
- VII. **GoalDAG – Archimate integration**  
Gungor C., Gungor C., Oguztuzun H.  
Communications in Computer and Information Science, vol.465, pp.194-210, 2014 (Scopus)
- VIII. **USING CONTEXT INFORMATION FOR STAGED CONFIGURATION OF FEATURE MODELS**  
KARATAŞ A. S., DOĞRU A. H., Oguztuzun H., Tolun M.  
JOURNAL OF INTEGRATED DESIGN & PROCESS SCIENCE, vol.15, no.2, pp.37-51, 2011 (ESCI)
- IX. **Scenario management practices in HLA based distributed simulation**  
TOPÇU O., OĞUZTÜZÜN M. H. S.  
Journal of Naval Science and Engineering, vol.6, no.2, pp.1-33, 2010 (Peer-Reviewed Journal)
- X. **Modeling of Field Artillery Tasks with Live Sequence Charts**  
Ozhan G., Oguztuzun H., Evrensel P.  
JOURNAL OF DEFENSE MODELING AND SIMULATION-APPLICATIONS METHODOLOGY TECHNOLOGY-JDMS, vol.5, no.4, pp.219-252, 2008 (ESCI)
- XI. **Coupled transport/chemistry calculations on the massively parallel processor computer**  
Carmichael G., Cohen D., Cho S., OĞUZTÜZÜN M. H. S.

## Books & Book Chapters

- I. **Internet of Measurement Things: Toward an Architectural Framework for the Calibration Industry**  
Saeedi Nikoo M., Kaya M. Ç., Schwartz M. L., Oğuztüzün M. H. S.  
in: The Internet of Things in the Industrial Sector, Mahmood Z., Editor, Springer, Cham, pp.81-102, 2019
- II. **Guide to Distributed Simulation with HLA**  
TOPÇU O., OĞUZTÜZÜN M. H. S.  
Springer International Publishing, Cham, 2017
- III. **Distributed Simulation A Model Driven Engineering Approach**  
TOPÇU O., DURAK U., OĞUZTÜZÜN M. H. S., YILMAZ L.  
Springer, Zürich, 2016
- IV. **Extracting location information from crowd-sourced social network data**  
KARAGÖZ P., OĞUZTÜZÜN M. H. S., ÇAKICI R., ÖZDİKİŞ Ö., ÖNAL K. D., SAĞCAN M.  
in: European Handbook of Crowdsourced Geographic Information, Capineri, C, Haklay, M, Huang, H, Antoniou, V, Kettunen, J, Ostermann, F and Purves, R, Editor, Ubiquity Press, Londrina, pp.195-204, 2016
- V. **Transformation of conceptual models to executable High Level Architecture federation models**  
ÖZHAN G., OĞUZTÜZÜN M. H. S.  
in: Concepts and Methodologies for Modeling and Simulation, Yılmaz, Levent, Editor, Springer, pp.135-173, 2015
- VI. **Context based semantic relations in tweets**  
Özdikiş Ö., Karagöz P., Oğuztüzün M. H. S.  
in: State of the Art Applications of Social Network Analysis, Can F, Özyer T, Polat F, Editor, Springer, Zürich, pp.35-52, 2014
- VII. **Querying fuzzy spatio-temporal databases: Implementation issues**  
SÖZER A., YAZICI A., OĞUZTÜZÜN M. H. S., PETRY F.  
in: Uncertainty Approaches for Spatial Data Modeling and Processing: A Decision Support Perspective (Studies in Computational Intelligence, vol. 271), J. Kacprzyk, F.E. Petry, A. Yazıcı, Editor, Springer, Heidelberg, pp.97-116, 2010

## Refereed Congress / Symposium Publications in Proceedings

- I. **Uncertainty Calculation-as-a-Service: Microservice-Based Metrology Applications**  
ÇETİNKAYA A., Kaya M. C., Bzuneh T. B., OĞUZTÜZÜN M. H. S.  
18th European Conference on Software Architecture, ECSA 2024, Luxembourg, Luxembourg, 3 - 06 September 2024, vol.14889 LNCS, pp.183-190
- II. **Software Architecture Evolution of a Physical Security Information Management System**  
Özçelik O., Oğuztüzün M. H. S.  
The Eighth International Conference on Advances and Trends in Software Engineering (SOFTENG 2022), Barcelona, Spain, 24 - 28 April 2022, pp.15-20
- III. **UNCERTAINTY CALCULATION-AS-A-SERVICE: AN IIOT APPLICATION FOR AUTOMATED RF POWER SENSOR CALIBRATION**  
ÇETİNKAYA A., KAYA M. Ç., Danaci E., OĞUZTÜZÜN M. H. S.  
IMEKO TC6 1st International Conference on Metrology and Digital Transformation, M4Dconf 2022, Berlin, Germany, 19 - 21 September 2022
- IV. **AUTORFPOWER: Automatic RF Power Measurement Software for Metrological Applications**  
ÇETİNKAYA A., Dogan A. K., Danaci E., OĞUZTÜZÜN M. H. S.  
2nd International Informatics and Software Engineering Conference, IISEC 2021, Ankara, Turkey, 16 - 17 December 2021
- V. **A framework for constructing agent-based aerospace simulations using model to text transformation**

DERE B. E., GÖRÜR B. K., OĞUZTÜZÜN M. H. S.

2020 Summer Simulation Conference, Madrid, Spain, 20 July 2022

- VI. **Factors on the execution times of metropolis resampling and its variations**  
DÜLGER Ö., OĞUZTÜZÜN M. H. S.  
5th International Conference on Computer Science and Engineering, UBMK 2020, Diyarbakır, Turkey, 9 - 10 September 2020, pp.152-155
- VII. **Implementation of the auxiliary sampling importance resampling particle filter on graphics processing unit Yardimli ornekleme onem yeniden ornekleme paracik siizgecinin grafi işleme biriminde gercekle stirilmesi**  
DÜLGER Ö., OĞUZTÜZÜN M. H. S.  
5th International Conference on Computer Science and Engineering, UBMK 2020, Diyarbakır, Turkey, 9 - 10 September 2020, pp.156-159
- VIII. **Transformation from SysML to RePast and Back**  
Çam S., Görür B. K., Ledet J., Oğuztüzün H., Yılmaz L.  
11th International Conference on Ambient Systems, Networks and Technologies, ANT 2020 / 3rd International Conference on Emerging Data and Industry 4.0, EDI40 2020 / Affiliated Workshops, Warszawa, Poland, 6 - 09 April 2020, vol.170, pp.845-850
- IX. **Variability Extension to SparkS, a Domain Specific Scripting Language for Electronic Test Equipment**  
Nikoo M. S., Oguztuzun H.  
4th International Conference on Computer Science and Engineering, UBMK 2019, Samsun, Turkey, 11 - 15 September 2019, pp.767-772
- X. **Contribution of the resampling stage to the execution time of particle filter Yeniden örnekleme adiminin parçacık süzgecinin çalışma zamanına katkisi**  
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- XI. **A CONFIGURABLE GATEWAY FOR DDS-HLA INTEROPERABILITY**  
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- XII. **Contribution of the Resampling Stage to the Execution Time of Particle Filter**  
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- XIII. **An MII-Aware SoA Editor for the Industrial Internet of Things**  
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- XIV. **Dynamic constraint satisfaction algorithm for online feature model reconfiguration**  
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- XV. **Supporting Simulation Experiments with Megamodeling**  
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- XVI. **Non-coalesced Access Patterns of Global Memory Load Transactions in Metropolis Resampling Implemented on Graphics Processing Unit**  
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- XVII. **Migration of Data from Relational Database to Graph Database**  
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- XVIII. MODELS AS SELF-AWARE COGNITIVE AGENTS AND ADAPTIVE MEDIATORS FOR MODEL-DRIVEN SCIENCE**  
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- XIX. DDS-HLA birlikte çalışabilirlik yaklaşımları üzerine bir literatür araştırması**  
KAYA M. Ç., ÇILDEN E., CANBERİ H., OĞUZZÜZÜN M. H. S.  
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- XX. Blocks and Text Integration in a Language-Based Editor for a Domain-Specific Language**  
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- XXI. An incremental constraint satisfaction algorithm for dynamic reconfiguration**  
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- XXII. Adaptive framework for remote monitoring and management of computer systems**  
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- XXVI. Metamodeling of Reference Software Architecture and Automatic Code Generation**  
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- XXVII. Özellik modelleri ve temsil ettikleri ürün tipleri arasındaki ilişkilerin çözümlenmesi**  
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- XXXIV. **MOKA An object oriented framework for FMI co simulation**  
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- XXXV. **Implementation of the Sampling Importance Resampling Particle Filter Algorithm in Graphics Processing Unit**  
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- XLI. **Heterogeneous DEVS simulations with connectors and reo based compositions [Work in Progress]**  
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- XLVIII. **Semantic Expansion of Tweet Contents for Enhanced Event Detection in Twitter**  
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- LI. **Transforming cross-tree relations involving attributes into basic constraints in feature models**  
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- LXVI. **A MASHUP BASED STRATEGY FOR MIGRATION TO SERVICE ORIENTED COMPUTING**  
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- LXX. **A mashup-based strategy for migration to service-oriented computing**  
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- LXXI. **An ontology for trajectory simulation**  
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- LXXII. **Model-integrated development of HLA-based field artillery simulation**  
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- LXXIV. **A metamodel for the HLA object model**  
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- LXXV. **Domain analysis for Reusable Trajectory Simulation**  
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## Supported Projects

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## Metrics

Publication: 130

Citation (WoS): 375

Citation (Scopus): 614

H-Index (WoS): 12

H-Index (Scopus): 13

## **Invited Talks**

Agent Based Modeling for Constructive Simulation of Naval Tactics, Conference, 19th Int Bhurban Conf on Applied Sciences & Technology, Pakistan, August 2022

## **Non Academic Experience**

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