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Education Information

Doctorate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Bilgisayar Mühendisliği (Dr), Turkey 2017 - Continues

Postgraduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Bilgisayar Mühendisliği (YI) (Tezli), Turkey 2014 - 2017

Undergraduate, Doğu Akdeniz Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey 2006 - 2011

Dissertations

Postgraduate, Variable connectors in component oriented development, Middle East Technical University, Graduate School of Natural and Applied Sciences, Bilgisayar Mühendisliği (YI) (Tezli), 2017

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. **MSDeveloper: A Variability-Guided Methodology for Microservice-Based Development**
Dolu B. K., Cetinkaya A., Kaya M. Ç., Nazlioglu S., Dogru A. H.
APPLIED SCIENCES, vol.12, no.22, pp.11439-11457, 2022 (SCI-Expanded)

Articles Published in Other Journals

- I. **UNCERTAINTY EVALUATION USING LAW OF PROPAGATION AND MONTE CARLO SIMULATION METHODS WITH THE AUTORFPOWER MEASUREMENT SOFTWARE**
Danaci E., Kartal Doğan A., Çiçek E. C., Çetinkaya A., Kaya M. Ç., Oğuztüzün M. H. S., Tunay G.
Konya mühendislik bilimleri dergisi (Online), vol.12, no.3, pp.596-607, 2024 (Peer-Reviewed Journal)
- II. **Analysis of Vector-Network-Analyzer-Based Power Sensor Calibration Method Application**
Danaci E., Bayrak Y., ÇETİNKAYA A., Arslan M., Sakarya H., Dogan A. K., Tunay G.

Instruments, vol.7, no.3, 2023 (Scopus)

III. **Off-the-Shelf Connectors for Interdisciplinary Components**

KAYA M. Ç., ÇETİNKAYA A., DOĞRU A. H.

JOURNAL OF INTEGRATED DESIGN & PROCESS SCIENCE, vol.22, no.3, pp.35-53, 2018 (ESCI)

Books & Book Chapters

I. **Cloud-Enabled Domain-Based Software Development**

Süloğlu S., KAYA M. Ç., ÇETİNKAYA A., KARAMANLIOĞLU A., DOĞRU A. H.

in: Software Engineering in the Era of Cloud Computing, Mahmood Z., Editor, Springer, Cham, pp.109-130, 2020

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. **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

III. **A Novel Software for Automatic Calibration Factor Measurement of RF Power Sensors**

Kizilbey O., Arslan M., Bayrak Y., ÇETİNKAYA A., Yugruk A., Danaci E.

7th International Conference on Computer Science and Engineering, UBMK 2022, Diyarbakır, Turkey, 14 - 16 September 2022, pp.371-373

IV. **AUTORPOWER: 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, ISEC 2021, Ankara, Turkey, 16 - 17 December 2021

V. **An Experimental Study on Decomposition: Process First or Structure First?**

ÇETİNKAYA A., Süloğlu S., KAYA M. Ç., KARAMANLIOĞLU A., TOKDEMİR G., DOĞRU A. H.

International Symposium on Business Modeling and Software Design, Lisbon, Portugal, 1 - 03 July 2019, pp.279-289

VI. **Component Integration Through Connector Supported Process Models**

ÇETİNKAYA A., KAYA M. Ç., DOĞRU A. H.

Emerging Trends and Technologies in Convergence Solutions, Society for Design and Process Science, Birmingham, United Kingdom, 5 - 09 November 2017, pp.31-37

VII. **Composition Capability of Component-Oriented Development**

KAYA M. Ç., ÇETİNKAYA A., DOĞRU A. H.

5th International Symposium on Innovative Technologies in Engineering and Science, Baku, Azerbaijan, 29 - 30 October 2017, pp.1299-1307

VIII. **Eşgüdümlü Bileşenler ile Birleştirme Yaklaşımı**

ÇETİNKAYA A., KARAMANLIOĞLU A., KAYA M. Ç., DOĞRU A. H.

11. Ulusal Yazılım Mühendisliği Sempozyumu, Alanya, Turkey, 18 - 20 October 2017, pp.619-631

IX. **Enhancing xcosem1 with connector variability for component oriented development.**

ÇETİNKAYA A., KAYA M. Ç., DOĞRU A. H.

International Conference on Emerging trends and technologies in Designing Healthcare Systems, Society for Design and Process Science, Orlando, United States Of America, 4 - 06 December 2016

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