

MEHMET İSMET CAN DEDE

M. I. Can Dede, Ph.D.
Executive Council Member, IFToMM
Marie-Curie Fellow
Director, IzTech Robotics Laboratory
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Education:

Ph.D. in Mechanical Engineering, Florida International University (FIU), Department of Mechanical and Materials Engineering, Miami, Florida, December 2007. Dissertation: Adaptive Fault-Tolerant Teleoperation

M.S. in Mechanical Engineering, Middle East Technical University (METU), Department of Mechanical Engineering, Ankara, Turkey, April 2003. M.S. Thesis: Position/Force Control of Robot Manipulators

B.S. in Mechanical Engineering, Istanbul Technical University (ITU), Department of Mechanical Engineering, Istanbul, Turkey, specialized in Automatic Control & Robotics, June 1999. B.S. Thesis: Control of a Production Line Using SCADA (Supervisory Control and Data Acquisition)

Research Areas:

- Teleoperation systems
- Haptic device design
- Medical robotics
- Mobile robots
- Fault-tolerant system design
- Dynamic modeling and controller design

Experience:

March 2017 –

- Associate Professor, Department of Mechanical Engineering, Izmir Institute of Technology, Izmir, Turkey

April 2013 –
General Manager, CAROB Engineering Corp.

2010/2011/2012/2013/2014/2015/2016/2017/2018/2019

- Visiting Professor, ERASMUS Staff Mobility for Teaching Assignments Programme, Department of Mechanical-Mechatronics Engineering, Management Center Innsbruck, Innsbruck, Austria
- Advanced Handling Technology (BSc Course), Robotics (MSc Course)

January 2009 – 2016

- Assistant Professor, Department of Mechanical Engineering, Izmir Institute of Technology, Izmir, Turkey

September 2008 – January 2009

- Instructor, Department of Mechanical Engineering, Izmir Institute of Technology, Izmir, Turkey
- Structural Design of Robot Manipulators (ME 572)

August 2003 – December 2007

- Research and Teaching Assistant, Department of Mechanical and Materials Engineering, Florida International University, Miami, Florida
- Teaching Assistant for courses Control Technology for Robots (EML 5808), Advanced Robot Design (EML 6805), Modeling of Robots (EML 4806), Robot Design (EML 4809), Mechanical Design I (EML 3500), Mechanical Design II (EML 4501), Dynamics (EGN 3321), and Technology Humans and Society (EGN 1033)
- Instructor, Center for Diversity in Engineering, Florida International University, Miami, Florida
- Industrial Applications of Microprocessors (ESI 3161), Fall 2006

June 2000 – July 2003

- Mechatronics Design Engineer, ASELSAN Military Electronics Industries, Ankara, Turkey
Microwave and Systems Technologies Division (www.aselsan.com.tr)
Pedestal Mounted Stinger System:
 - Determination of control parameters of the stabilized and non-stabilized modes of the vehicle turret
 - Design of the rugged machine gun cocking mechanism
 - Development of a Stewart Platform Simulator for road data simulation (control and design)Modernization of the Turkish MBT (Main Battle Tank) Leopard 1A1:
 - Development of the control design
 - Development of APG (Aberdeen Proving Ground) track simulator (control and design)

Administrative Experience:

2016 – 2022

Member, Executive Council of IFToMM

2010 – 2016

Vice Chair, IzTech Mechanical Engineering Department

2014 – 2015

Member, Executive Council for Transportation, Defense, Energy and Textile Technologies
Group of The Scientific and Technological Research Council of Turkey (TÜBİTAK)

2013 –

Member, Technical Committee on Linkages and Mechanical Controls of International Federation
for Promotion of Mechanism and Machine Science (IFToMM)

Ongoing Funded Projects:

Robotic Squid for Underwater Manipulation and Intervention

- Principal Investigator : Dr. Tolga Ayav
- Researchers : **Dr. Mehmet İsmet Can Dede**, Dr. Erkan Zergeroğlu (GTÜ)
- Funding Organization : TÜBİTAK
- Program : 1003
- Project Code : 216M219
- Grant Period : January 2019 – January 2022

Design of an Inherently Balanced Robotic Manipulator with Remote Center of Motion to be used
as an Endoscope Holder for Endonasal Skull Base Surgery (BalanScope)

- Principal Investigator : Dr. Gökhan Kiper
- Researchers : **Dr. Mehmet İsmet Can Dede**, Dr. H. Seçil Artem, Dr. Levent Aydın (İzmir Katip Çelebi Üniversitesi), Dr. Volkert van der Wijk (Delft University)
- Funding Organization : TÜBİTAK
- Program : 1001
- Project Code : 219M483
- Grant Period : October 2020 – October 2022

Completed Funded Projects:

Methodologies for Increasing the Positioning Accuracy of High-Acceleration Parallel Robots
Used in Industrial Applications

- Principal Investigator : Dr. Gökhan Kiper
- Researchers : **Dr. Mehmet İsmet Can Dede**, Dr. Enver Tatlıcıoğlu
- Funding Organization : TÜBİTAK
- Program : 1001
- Project Code : 116M272
- Grant Period : October 2017 – June 2019

HISS: design of a Haptic system with Improved performance via developing its new Sub-Systems

- Principal Investigator : **Dr. Mehmet İsmet Can Dede**
- Researchers : Dr. Gökhan Kiper
- Funding Organization : TÜBİTAK
- Program : 1005
- Project Code : 117M405
- Grant Period : November 2017 – May 2019

Robot Assisted endoscope Control that can be controlled by the surgical tools (NeuRoboScope)

- Principal Investigator : **Dr. Mehmet İsmet Can Dede**
- Researchers : Dr. Enver Tatlıcıoğlu, Dr. Gökhan Kiper, Dr. Tolga Ayav, Dr. Barbaros Özdemirel
- Funding Organization : TÜBİTAK
- Program : 1003
- Project Code : 115E726
- Grant Period : January 2016 – July 2018

Development of a Telerobotics System with Kinematically Different Master and Slave Robots: Theory and Applications

- Principal Investigator : Dr. Enver Tatlıcıoğlu
- Researchers : **Dr. Mehmet İsmet Can Dede**, Dr. Erkan Zengeroğlu (GTÜ)
- Funding Organization : TÜBİTAK
- Program : 1001
- Project Code : 113E147
- Grant Period : October 2013 – October 2015

Kinematically Redundant Planar Laser Cutting Machine Design

- Principal Investigator : **Dr. Mehmet İsmet Can Dede**
- Researchers : Dr. Gökhan Kiper, Dr. Erkin Gezgin (İKÇÜ)
- Funding Organization : Ministry of Science, Industry and Technology, Turkey
- Program : Industrial Theses Program
- Project Code : 01668.STZ.2012-2
- Grant Period : December 2012—June 2014

High Precision Haptic Device Design

- Principal Investigator : **Dr. Mehmet İsmet Can Dede**
- Funding Organization : European Union 7th Framework Programme
- Program : International Reintegration Grants
- ID/Acronym : 239320 / HIPHAD
- Grant Period : April 2009—April 2013

Control of Assistive Robot with Facial Expressions

- Principal Investigator : Dr. Axel Graeser
- Researchers : Dr. Myung Jin Chung, and Dr. Pyung-Hun Chang, KAIST, Daejeon, Korea, and **Dr. Mehmet İsmet Can Dede**, IYTE, Izmir, Turkey

- Funding Organization : Korean scientific cooperation network with the European Research Area
- Program : Pilot Joint Call on Research for Life-long Health
- ID/Acronym : CAROFEX
- Grand Period : October 2010—September 2011

Publications:

- Science Citation Indexed (SCI & SCI-E) Journal Papers:

1. İ. Görgülü, G. Carbone, and **M. İ. C. Dede** "Time efficient stiffness model computation for a parallel haptic mechanism via the virtual joint method," *Mechanism and Machine Theory*, 143, January 2020. (DOI: 10.1016/j.mechmachtheory.2019.103614)
2. E. Uzunoglu, E. Tatlıcıoğlu and **M. İ. C. Dede** "A Multi-Priority Controller for Industrial Macro-Micro Manipulation," *Robotica*, 1-16, 2020. (DOI: 10.1017/S0263574720000338)
3. A. Yaşır, G. Kiper, and **M. İ. C. Dede** "Kinematic design of a non-parasitic 2R1T parallel mechanism with remote center of motion to be used in minimally invasive surgery applications," *Mechanism and Machine Theory*, 153, November 2020.
4. E. Mobedi, **M. İ. C. Dede**, "Geometrical analysis of a continuously variable transmission system designed for human-robot interfaces," *Mechanism and Machine Theory*, 140, 567-585, 2019. (DOI: 10.1016/j.mechmachtheory.2019.06.024)
5. O. N. Sahin, E. Uzunoglu, E. Tatlıcıoğlu, **M. İ. C. Dede**, "Design and Development of an Educational Desktop Robot R3D," *Computer Applications in Engineering Education*, 25 (2), 222–229, 2017. (DOI: 10.1002/cae.21792).
6. G. Kiper, **M. İ. C. Dede**, O. W. MaarooF, M. Özkahya "Function Generation with Two Loop Mechanisms using Decomposition and Correction Method," *Mechanism and Machine Theory*, Volume 110, pp. 16-26, 2017. (DOI: 10.1016/j.mechmachtheory.2016.12.004).
7. E. Uzunoğlu and **M. İ. C. Dede**, "Extending model-mediation method to multi-degree-of-freedom teleoperation systems experiencing time delays in communication," *Robotica*, Volume 35, Issue 5, pp. 1121-1136, May 2017. (DOI: 10.1017/S0263574715001010).
8. **M. İ. C. Dede**, O. W. MaarooF and E. Tatlıcıoğlu, "A New Objective Function for Obstacle Avoidance by Redundant Service Robot Arms," *International Journal of Advanced Robotic Systems*, 13:48, 2016. (DOI: 10.5772/62471)
9. E. Uzunoğlu, **M. İ. C. Dede**, G. Kiper "Trajectory planning for a planar macro-micro manipulator of a laser-cutting machine," *Industrial Robot: An International Journal*, Vol. 43 Iss: 5, pp.513 – 523, 2016. (DOI: 10.1108/IR-02-2016-0057)
10. H. T. Gundogdu, **M. İ. C. Dede**, B. Taner, A. Ridolfi, R. Costanzi, B. Allotta "Design and testing of an innovative cleaning tool for underwater applications," *Proceedings of the Institution of Mechanical Engineers, Part M: Journal of Engineering for the Maritime Environment*, Published online before print October 18, 2015, November 2016, vol. 230 no. 4 pp. 579-590. (DOI: 10.1177/1475090215610599)
11. R. I. Alizade, G. Kiper, B. Bağdadioğlu and **M.İ.C. Dede**, "Function synthesis of Bennett 6R mechanisms using Chebyshev approximation," *Mechanism and Machine Theory*, Volume 81, pp. 62-78, 2014.

12. O. W. Maarooft and **M. İ. C. Dede**, "Kinematic synthesis of over-constrained double-spherical six-bar mechanism," *Mechanism and Machine Theory*, Volume 73, pp. 154-168, 2014.
13. **M. Dede**, and S. Tosunoglu, "Fault-Tolerant Teleoperation Systems Design," *Industrial Robot Journal*, International Federation of Robotics, IFR, Volume 33, Number 5, pp. 365-372, 2006.

- Journal Papers appearing in other Indices:

1. İ. Görgülü, **M.İ.C. Dede**, "A New Stiffness Performance Index: Volumetric Isotropy Index," *Machines*, 7(2), 44, 2019. (DOI: 10.3390/machines7020044).
2. **M. İ. C. Dede**, O. W. Maarooft, M. Ceccarelli "Analytical Dynamic Analysis of a Kinesthetic Haptic Device," *Dokuz Eylul University-Faculty of Engineering Journal of Science and Engineering*, Volume 20, Issue 59, pp. 492-508, May 2018. (DOI: 10.21205/deufmd.2018205939).
3. B. Allotta, R. Costanzi, A. Ridolfi, O. Salvetti, M. Reggiannini, M. Kruusmaa, T. Salumae, D. M. Lane, G. Frost, N. Tsiogkas, M. Cocco, L. Gualdesi, G. Lacava, D. Roig, H. T. Gundogdu, **M. I. C. Dede**, S. Baines, S. Tusa, P. Latti, D. Scaradozzi "The ARROWS Project: robotic technologies for underwater archaeology," *IOP Conference Series: Materials Science and Engineering*. Vol. 364. No. 1. IOP Publishing, 2018. (DOI: 10.1088/1757-899X/364/1/012088)
4. B. Allotta, R. Costanzi, A. Ridolfi, C. Colombo, F. Bellavia, M. Fanfani, F. Pazzaglia et al. "The ARROWS project: adapting and developing robotics technologies for underwater archaeology," *IFAC-PapersOnLine*, 2015, vol. 48 no. 2 pp. 194-199 (DOI: 10.1016/j.ifacol.2015.06.032).
5. G. Kiper, T. Bilginca ve **M. İ. C. Dede** "Function Generation Synthesis of Planar 5R Mechanism," *IFTToMM International Journal of Problems of Mechanics*, Volume 51, Number 2, pp. 28-31, 2013.
6. **M. İ. C. Dede**, D. Çömen, G. Berker and İ. Erkılınçoğlu, "Kinematic Synthesis of the Motion Generation of Linkages," *IFTToMM International Journal of Problems of Mechanics*, Volume 48, Number 3, pp. 13-20, 2012.
7. **M. İ. C. Dede**, D. Çömen, İ. Erkılınçoğlu and E. Uzunoğlu, "Kinematic Synthesis of Path Generation of Planar Mechanisms," *IFTToMM International Journal of Problems of Mechanics*, Volume 48, Number 3, pp. 38-42, 2012.
8. D. Çömen, İ. Erkılınçoğlu ve **M. İ. C. Dede**, "Kinematic Synthesis of Function Generating Spatial RTSR Mechanism by Chebyshev Approximation," *IFTToMM International Journal of Problems of Mechanics*, Volume 46, Number 1, pp. 15-20, 2012.
9. **M. I. C. Dede**, "Virtual Prototyping of Robot Controllers," *International Journal of Design Engineering*, Volume 3, Number 3, pp. 276-288, 2010.
10. E. B. Aytar, and **M. İ. C. Dede**, "A Survey on Uninhabited Underwater Vehicles (UUV)," *ASME Early Career Technical Journal*, Volume 8, Number 1, pp. 35.1-35.8, October 2009.
11. **M. I. C. Dede**, and S. Tosunoglu, "Development of a Virtual Haptic Laboratory," *ASME Early Career Technical Journal*, Volume 6, Number 1, pp. 2.1-2.8, October 2007.
12. V. V. Madadi, **M. I. C. Dede**, and S. Tosunoglu, "Gait Development for the TYROL Biped Robot," *ASME Early Career Technical Journal*, Volume 6, Number 1, pp. 7.1-7.8, October 2007.

13. **M. I. C. Dede**, and S. Tosunoglu, "Virtual Rapid Robot Prototyping," ASME Early Career Technical Journal, Volume 5, Number 1, pp. 7.1-7.8, October 2006.
14. **M. I. C. Dede**, S. Nasser, S. Ye, and S. Tosunoglu, "Cerberus: Development of a Humanoid Robot," ASME Early Career Technical Journal, Volume 5, Number 1, pp. 8.1-8.8, October 2006.
15. C. S. Merino, M. Shi, **M. I. C. Dede**, and S. Tosunoglu, "Design of an All-Terrain Modular Robot," ASME Southeastern Region XI Technical Journal, Volume 4, Number 1, pp. 7.1-7.7, April 2005.
16. **M. I. C. Dede**, S. Tosunoglu, and D. Repperger, "A Study on Multiple Degree-of-Freedom Force-Reflecting Teleoperation with Constant and Variable Time Delays," ASME Southeastern Region XI Technical Journal, Volume 4, Number 1, pp. 3.1-3.8, April 2005.
17. C. R. Puligari, **M. I. C. Dede**, S. Tosunoglu, and D. W. Repperger, "System Integration of a Force-Reflecting Manual Controller with any SV203 Controlled Platform," ASME Southeastern Region XI Technical Journal, Volume 4, pp. 6.1-6.7, April 2005.
18. C. R. Puligari, **M. I. C. Dede**, S. Tosunoglu, and D. W. Repperger, "Development of a Force-Reflecting Manual Controller Prototype for Teleoperation," ASME Southeastern Region XI Technical Journal, Volume 3, Number 1, pp. 11.1-11.7, April 2004.

- International Conference Papers:

1. E. Mobedi and **M. İ. C. Dede** "Calibration Study of a Continuously Variable Transmission System Designed for pHRI," In: D. Pisla, B. Corves and C. Vaida (eds) New Trends in Mechanism and Machine Science: Proceedings of the 8th European Conference on Mechanism Science (EUCOMES 2020). Mechanisms and Machine Science, Vol. 89, pp. 381-388, Springer, Cham, 2020. (DOI: 10.1007/978-3-030-55061-5_43)
2. İ. Görgülü, E. Paksoy, G. Carbone and **M. İ. C. Dede** "An Experimental Setup and Procedure for Stiffness Evaluation of Robot Manipulators," In: V. Niola and A. Gasparetto (eds) Advances in Italian Mechanism Science: Proceedings of the 3rd International Conference of IFToMM Italy (IFIT 2020). Mechanisms and Machine Science, Vol. 91, pp. 286-294, Springer, Cham, 2020. (DOI: 10.1007/978-3-030-55807-9_33)
3. E. Mobedi, and **M. İ. C. Dede** "A Continuously Variable Transmission System Designed for Human–Robot Interfaces," In: D. Sen, S. Mohan, G. K. Ananthasuresh (eds) Mechanism and Machine Science: Select Proceedings of Asian MMS 2018. Mechanisms and Machine Science, pp. 29-41, Springer, Cham. (DOI: 10.1007/978-981-15-4477-4_3)
4. V. Sekendiz, İ. Görgülü, M. G. Karabulut, G. Kiper, and **M. İ. C. Dede** "Manipulator Design for a Haptic System with Improved Performance," In: D. Sen, S. Mohan, G. K. Ananthasuresh (eds) Mechanism and Machine Science: Select Proceedings of Asian MMS 2018. Mechanisms and Machine Science, pp. 15-28, Springer, Cham. (DOI: 10.1007/978-981-15-4477-4_2)
5. A. Yaşır, G. Kiper, **M. İ. C. Dede**, V. Van der Wijk, "Static Force Balancing of a 2R1T Parallel Manipulator with Remote Center of Motion," In: 15th IFToMM World Congress, Krakow, Poland, 30 June – 4 July 2019. (Published in: Uhl T. (eds) Advances in

- Mechanism and Machine Science. IFToMM WC 2019. Mechanisms and Machine Science, vol 73. Springer, Cham, pp. 3219-3226. 2019)
6. O. Işıtman, **M. İ. C. Dede**, “Control Methods for a Teleoperated Endoscope Robot,” In: 15th IFToMM World Congress, Krakow, Poland, 30 June – 4 July 2019. (Published in: Uhl T. (eds) Advances in Mechanism and Machine Science. IFToMM WC 2019. Mechanisms and Machine Science, vol 73. Springer, Cham, pp. 2077-2086. 2019)
 7. G. Carbone, A. Acinapura, D. Mundo, İ. Görgülü, **M. İ. C. Dede**, “ Structural Compliance Effects on the Accuracy and Safety of a R-CUBE Haptic Device,” In: 28th International Conference on Robotics in Alpe-Adria Danube Region, Kaiserslautern, Germany, 19-21 June 2019. (Published in: Berns K., Görges D. (eds) Advances in Service and Industrial Robotics. RAAD 2019. Advances in Intelligent Systems and Computing, vol 980. Springer, Cham, pp. 463-470, 2020.)
 8. E. Mobedi, **M. İ. C. Dede**, “A Continuously Variable Transmission System Designed for Human-Robot Interfaces,” In: IFToMM Asian Mechanism and Machine Science (Asian MMS 2018), Bangalore, Indida, 17-20 December 2018.
 9. V. Sekendiz, İ. Görgülü, M. G. Karabulut, G. Kiper, **M. İ. C. Dede**, “Manipulator Design for a Haptic System with Improved Performance,” In: IFToMM Asian Mechanism and Machine Science (Asian MMS 2018), Bangalore, Indida, 17-20 December 2018.
 10. İ. Görgülü and **M. İ. C. Dede**, “Computation Time Efficient Stiffness Analysis of the Modified R-CUBE Mechanism,” In: The International Conference of IFToMM ITALY (pp. 231-239). Springer, Cham. November 2018.
 11. İ. Görgülü, G. Kiper, and **M. İ. C. Dede**, “A Critical Review of Unpowered Performance Metrics of Impedance-Type Haptic Devices,” In: Corves B., Wenger P., Hüsing M. (eds) EuCoMeS 2018. European Conference on Mechanism Science 2018. Mechanisms and Machine Science, Vol. 59, pp. 129-136, Springer, Cham. (DOI: 10.1007/978-3-319-98020-1_15)
 12. E. Mobedi, İ. Görgülü, and **M. İ. C. Dede**, “Experimental Evaluation of Actuation and Sensing Capabilities of a Haptic Device,” In: Corves B., Wenger P., Hüsing M. (eds) EuCoMeS 2018. European Conference on Mechanism Science 2018. Mechanisms and Machine Science, Vol. 59, pp. 137-144, Springer, Cham. (DOI: 10.1007/978-3-319-98020-1_16)
 13. M. G. Karabulut and **M. İ. C. Dede**, “Design and Experimental Validation of an MR-Fluid Based Brake for Use in Haptics,” ACTUATOR 2018; 16th International Conference on New Actuators, pp. 1-5, Bremen, Germany, 25-27 June 2018.
 14. O. Işıtman, O. Ayit, E. Vardarlı, Ş. Hanalioğlu, İ. Işııkay, M. Berker, **M. İ. C. Dede**, “Viscoelastic Modeling of Human Nasal Tissues with a Mobile Measurement Device,” In New Trends in Medical and Service Robotics, pp. 216-224, Springer, Cham, 2019 (Presented in 6-th International Workshop on New Trends in Medical and Service Robotics (MESROB 2018), Cassino, Italy, 4-6 July 2018).
 15. G. Ateş, R. Majani, and **M. İ. C. Dede**, “Design of a Teleoperation Scheme with a Wearable Master for Minimally Invasive Surgery,” In New Trends in Medical and Service Robotics, pp. 45-53, Springer, Cham, 2019 (presented in 6-th International Workshop on New Trends in Medical and Service Robotics (MESROB 2018), Cassino, Italy, 4-6 July 2018).
 16. İ. Görgülü, O.W. Maarroof, B. Taner, **M. İ. C. Dede**, M. Ceccarelli, “Experimental Verification of Quasi-Static Equilibrium Analysis of a Haptic Device,” Proceedings of

- the International Symposium of Mechanism and Machine Science, Baku, Azerbaijan, September 11-14, 2017.
17. O. N. Şahin, O. Çelik, and **M. İ. C. Dede**, “Fault-Tolerance Experiments with a Kinematically Redundant Holonomic Mobile Robot,” *Mechanisms, Transmissions and Applications. MeTrApp 2017*. Dede M., İtik M., Lovasz EC., Kiper G. (eds), *Mechanisms and Machine Science*, vol 52, pp. 161-170, Springer, Dordrecht, The Netherlands, 2017 (ISBN: 978-3-319-60701-6).
 18. O. Işıtman, O. Ayit, and **M. İ. C. Dede**, “The Effects of Admittance Term on Back-Drivability,” *Mechanisms, Transmissions and Applications. MeTrApp 2017*. Dede M., İtik M., Lovasz EC., Kiper G. (eds), *Mechanisms and Machine Science*, vol 52, pp. 181-190, Springer, Dordrecht, The Netherlands, 2017 (ISBN: 978-3-319-60701-6).
 19. **M. İ. C. Dede**, O. W. Maarroof, G. Ateş, M. Berker, İ. Işııkay, and Ş. Hanalioğlu "Unilateral Teleoperation Design for a Robotic Endoscopic Pituitary Surgery System," *New Trends in Medical and Service Robots Design, Analysis and Control, Part XIII*, M. Husty and M. Hofbauer(Eds.), pp. 101-115, Springer, Cham, 2018. (DOI: 10.1007/978-3-319-59972-4_8).
 20. **M. İ. C. Dede**, G. Kiper and E. Uzunoğlu "A Macro-Micro Mechanism Design for Laser Cutting Process," *The 17th International Conference on Machine Design and Production*, Bursa, Turkey, July 12-15, 2016.
 21. G. Kiper, **M. İ. C. Dede**, E. Uzunoğlu, E. Mastar "Use of Hidden Robot Concept for Calibration of an Over-Constrained Mechanism," *The 14th IFToMM World Congress*, Taipei, Taiwan, October 25-30, 2015 (DOI: 10.6567/IFToMM.14TH.WC.OS13.095).
 22. E. Uzunoğlu, **M. İ. C. Dede**, G. Kiper "Trajectory Planning for a Redundant Planar Laser-Cutting Machine with Macro-Micro Manipulation," *The 14th IFToMM World Congress*, Taipei, Taiwan, October 25-30, 2015 (DOI: 10.6567/IFToMM.14TH.WC.OS13.094).
 23. B. Taner, **M. İ. C. Dede**, E. Uzunoğlu, “Applying Model Mediation Method to a Mobile Robot Bilateral Teleoperation System Experiencing Time Delays in Communication,” *TrC-IFToMM Symposium on Theory of Machines and Mechanisms*, İzmir, Türkiye, June 14-17, pp. 606-614, 2015.
 24. M. G. Karabulut, **M. İ. C. Dede**, B. Taner, “A Study on Selecting the Method of Constructing the Information to be Exchanged in Unlimited-workspace Bilateral Teleoperation,” *TrC-IFToMM Symposium on Theory of Machines and Mechanisms*, İzmir, Türkiye, June 14-17, pp. 619-625, 2015.
 25. B. Allotta, S. Baines, F. Bartolini, F. Bellavia1, C. Colombo, R. Conti, R. Costanzi1, **C. Dede**, M. Fanfani, J. Gelli, H. Tolasa Gündoğdu, N. Monni, D. Moroni, M. Natalini, M. A. Pascali, F. Pazzaglia, L. Pugi, A. Ridolfi, M. Reggiannini, D. Roig, O. Salvetti and E. I. Tekdemir, “Design of a modular Autonomous Underwater Vehicle for archaeological investigations,” *MTS/IEEE OCEANS*, Genova, Italy, May 18-21, 2015.
 26. H. Tolasa Gündoğdu, **M. İ. C. Dede**, B. Taner, A. Ridolfi, R. Costanzi, B. Allotta, “An innovative Cleaning Tool for underwater soft cleaning operations,” *MTS/IEEE OCEANS*, Genova, Italy, May 18-21, 2015.
 27. **M. İ. C. Dede**, E. Gezgin, G. Kiper, E. Mastar, T. Sığırtaç and E. Uzunoğlu, “Design and Analysis of a Parallel Mechanism for Kinematically Redundant Hybrid Planar Laser Cutting Machine,” *16th International Conference on Machine Design and Production*, İzmir, Türkiye, June 30 – July 3, pp. 810-822, 2014.

28. O. Maarooof, E. Gezgin ve **M. İ. C. Dede**, "General Subtask Controller for Redundant Robot Manipulators," 12th IEEE Int. Conf. on Control, Automation, Jeju Island, Korea, October 17-21, pp. 1352-1357, 2012.
29. T. Bilginçan, E. Gezgin, and **M. İ. C. Dede**, "Integration of the Hybrid-Structure Haptic Interface: HIPHAD v1.0," Proceedings of the International Symposium of Mechanism and Machine Theory, Izmir, Turkey, pp. 267 – 284, October 5-8, 2010.
30. T. Bilginçan, and **M. İ. C. Dede**, "Development of an R-CUBE Based General Purpose Haptic Device System," Proceedings of the ASME 2010 10th Biennial Conference on Engineering Systems Design and Analysis, Istanbul, Turkey, pp. 675-682, July 12-14, 2010.
31. **M. İ. C. Dede**, O. Selvi, T. Bilginçan, and Y. Kant, "Design of a Haptic Device for Precision Operations," Proceeding of the IEEE International Conference on Systems, Man & Cybernetics, SMC 2009, San Antonio, Texas, pp. 3623 – 3628, October 10-12 2009.
32. **M. İ. C. Dede**, and S. Tosunoglu, "Control of Teleoperation Systems Operating under Communication Line Failures," 34th Annual Conference of IEEE Industrial Electronics Society, Orlando, Florida, November 10-12, 2008.
33. **M. İ. C. Dede**, "Virtual Prototyping of Robot Controllers," Proceedings of the 13th International Conference on Machine Design and Production, pp. 241-256, Istanbul, Turkey, September 3-5, 2008.
34. **M. İ. C. Dede**, and S. Tosunoglu, "Modification of the Wave Variable Technique for Teleoperation Systems Experiencing Communication Loss," Proceedings of the 7th IEEE International Symposium on Computational Intelligence in Robotics and Automation, pp. 380-385, Jacksonville, Florida, June 20-23, 2007. (Rodney Roberts, Editorial Board Chair)
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Awards:

- TÜBİTAK (The Scientific and Technological Research Council of Turkey) Award for Promoting the Participation in EU 7th Framework Programmes, 2009.
- Marie-Curie Fellow, European Union 7th Framework Programme, 2009.
- Recipient of Dean's Award for Excellence in Overall Research Productivity 2006-2007, College of Engineering and Computing, FIU, Miami, April 2007.
- Received the Dissertation Year Fellowship Award, University Graduate School, FIU, Miami, 2007.
- Received IFToMM Service Appointment Certificate, 2016