

# SELÇUK ÇOLAK

## PROF.

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Fakültesi, İşletme Bölümü, Ofis:115, Balcalı, Sarıçam / Adana

### International Researcher IDs

ScholarID: ZWlauI4AAAAJ

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Publons / Web Of Science ResearcherID: L-2592-2018

Yoksis Researcher ID: 58380



## Biography

Prof. Dr. Selçuk Çolak was born in Adana in 1975. He completed his undergraduate studies in Electrical and Electronics Engineering at Çukurova University in 1997. Following this, he started his master's studies in the same department and worked as a Research Assistant. He received a scholarship from the Ministry of National Education, which enabled him to pursue his master's and doctoral degrees in the United States. He obtained his master's degree in 2000 from the Department of Electrical and Computer Engineering at the University of Florida, where he also achieved the title of Senior Engineer.

Selçuk ÇOLAK started his doctoral studies in the Department of Information Systems and Operations Management at the Warrington College of Business at the University of Florida, where he also served as a Research Assistant. He completed his Ph.D. under the supervision of Prof. Dr. Selçuk ERENGÜÇ and Prof. Dr. Anurag AGARWAL with a dissertation titled "Neural Networks Based Metaheuristics for Solving Optimization Problems" and returned to Turkey in early 2006. Selçuk ÇOLAK continued his academic career in the Department of Business Administration at the Faculty of Economics and Administrative Sciences at Çukurova University, where he is currently a Professor. Additionally, he served as a Visiting Faculty Member during the summer terms in the Department of Industrial Engineering at the Faculty of Engineering and Natural Sciences at Sabancı University between 2011 and 2018.

Dr. ÇOLAK's research areas primarily include Production Management, Project Management, Logistics and Supply Chain Management, Artificial Intelligence, Metaheuristic Methods, Operations Research, and Entrepreneurship. His articles have been published in high-level journals such as Computers and Operations Research, European Journal of Operational Research, Naval Research Logistics, Annals of Operations Research, Journal of Business & Economics Research, and Simulation, and have received numerous citations. Prof. ÇOLAK has contributed chapters to international books and presented papers at various conferences. He has also served as referee for national and international journals, participated in panel and evaluation board memberships for TÜBİTAK and KOSGEB programs, and served as a jury member and chairman in various national and international events.

During and after his doctorate, Selçuk ÇOLAK specialized in project management both in academic activities and in practical applications. He has taught project management courses at Çukurova University and Sabancı University, and has been involved in numerous projects carried out with institutions such as TÜBİTAK, the Ministry of Industry and Technology, United Nations Agencies, the European Union, KOSGEB, and Development Agencies. He has taught various undergraduate, graduate, and doctoral courses at Çukurova University, Sabancı University, the University of Florida, and Çaç University, including Production Management, Production Systems, Project Management, Logistics and Supply Chain Management, Information Systems and Technologies, Heuristic and Metaheuristic Methods, Production Planning and Control, Project Planning and Scheduling, Operations Research, and Entrepreneurship.

Prof. Dr. Selçuk ÇOLAK has held administrative and managerial positions both within the university and externally. Since 2012, he has been serving as the Head of the Production Management Division at the Faculty of Economics and Administrative Sciences, Department of Business Administration at Çukurova University. Between 2013 and 2020, he

served as the Deputy Director of the Social Sciences Institute, Distance Education Coordinator, Erasmus Coordinator, and a member of the Institute Council and Institute Administrative Board. He has also served as a member of the Faculty Council and Faculty Administrative Board at the Faculty of Economics and Administrative Sciences and Kozan Faculty of Business Administration at Çukurova University, and as a member of the University Quality Commission and Director of the Quality Commission Executive Subgroup. Since 2018, Selçuk ÇOLAK has been a member of the Coordination Board of Student Clubs at Çukurova University and the Advisor of the Entrepreneurship Club.

Between 2020 and 2022, Selçuk ÇOLAK served as the Chairman of the Board of Directors of the Çukurova University Technology Development Zone (Çukurova Technopark). Leading systematic teamwork, ÇOLAK managed to raise Çukurova Technopark's ranking from 45th to 22nd in the Ministry of Industry and Technology's Technology Development Zones Performance Index within 1.5 years. In 2021, Çukurova Technopark became the first institution from Adana to participate in the Aviation, Space, and Technology Festival, TEKNOFEST, held in Istanbul. Throughout the event, he facilitated the participation of teams competing under the sponsorship of Technopark and winning various awards, bringing together Adana's youth with ecosystem stakeholders. He also organized Turkey's first Techno Kids' Festival in collaboration with the Ministry of Family and Social Services at Çukurova Technopark.

Dr. ÇOLAK has served as the Coordinator of Çukurova University TTO, Coordinator of the Adana Entrepreneurship Center, and Chairman of the Board of Directors of Çukurova Chemical Production Technologies Inc. He is the founder and general manager of Informs R&D IT Consulting Engineering Software Services Ltd. Co. Additionally, between 2017 and 2022, he served as the official academic advisor for Adana province and its districts under the Union of Chambers and Commodity Exchanges of Turkey (TOBB), providing consultancy services to the Chambers of Commerce and Industry and Exchanges on behalf of TOBB, maintaining close contact with the business world.

Prof. Dr. Selçuk ÇOLAK is married and has two children.

## Learning Knowledge

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Doctorate 2001 - 2006	University of Florida, College Of Business, Information Systems And Operations Management, United States Of America
Postgraduate 1999 - 2000	University of Florida, College Of Engineering, Electrical And Computer Engineering, United States Of America
Undergraduate 1992 - 1997	Cukurova University, Mühendislik Ve Mimarlık Fakültesi, Elektrik - Elektronik Mühendisliği Bölümü, Turkey

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## Foreign Languages

English, C1 Advanced

## Dissertations

Doctorate, Neural Networks Based Metaheuristics for Solving Optimization Problems, University of Florida, Warrington College Of Business, Information Systems And Operations Management, 2006

## Academic Titles / Tasks

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Professor  
2018 - Continues

Cukurova University, İktisadi Ve İdari Bil. Fak., İşletme

Associate Professor  
2012 - 2018

Cukurova University, İktisadi Ve İdari Bil. Fak., İşletme

Associate Professor  
2012 - 2018

Sabancı University, Mühendislik ve Doğa Bilimleri Fakültesi, Endüstri Mühendisliği

Assistant Professor  
2010 - 2012

Sabancı University, Faculty Of Engineering And Natural Sciences, Endüstri Mühendisliği

Assistant Professor  
2009 - 2012

Cukurova University, İktisadi Ve İdari Bil. Fak., İşletme

Lecturer PhD  
2006 - 2009

Cukurova University, İktisadi Ve İdari Bil. Fak., İşletme

Research Assistant  
2002 - 2006

University of Florida, Warrington College Of Business, Information Systems And Operations Management

## Supported Projects

1. Çolak S., Other International Funding Programs, Adana Entrepreneurship Center Early-Stage Technology Entrepreneurs Pre-Incubation Program, 2021 - 2021
2. Çolak S., KOSGEB, Bölgesel Planlama ve Rota Yönetim Sistemi Geliştirilmesi (Development of Regional Planning and Route Management System), 2020 - 2021
3. TANIR F., ÖZTAŞ S., ZENGİN F., BAYAT A., BAŞIBÜYÜK M., URAL S., KILIÇ A. M., OKUR Z., SABIR E. C., ÇOLAK S., et al., Project Supported by Higher Education Institutions, ÇUKUROVA ÜNİVERSİTESİ İŞ SAĞLIĞI ve GÜVENLİĞİ YÖNETİM SİSTEMİ OTOMASYON YAZILIMI, 2017 - 2021
4. Çolak S., Halefoğlu Y. Z., Aydın K., Other International Funding Programs, Consultancy Services for Establishment and Operationalization of Innovation Centers, 2019 - 2020
5. Çolak S., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Adana Girişimcilik Merkezi Projesi, 2018 - 2020
6. Çolak S., Other International Funding Programs, Delivery of Business Plan Trainings and Supporting Firm Establishment in Adana and Mersin, 2019 - 2019
7. ÇOLAK S., ALATEPELİ B., ELÇİÇEK GÜNEŞ P., Project Supported by Higher Education Institutions, Gümrüklerde Otomasyon Sistemlerine Adaptasyon Sürecinin Faktör Analizi İle Değerlendirilmesi, 2018 - 2019
8. Çolak S., Halefoğlu Y. Z., Kokangül A., Güzel E., TUBITAK Project, Çukurova Üniversitesindeki öğrenci ve öğretim elemanlarının girişimcilik sertifikası kazandırılması, 2015 - 2019
9. Çolak S., Other International Funding Programs, Provision of Services on Delivery of Entrepreneurship Training, Coaching and Mentorship, 2018 - 2018
10. FİSUNOĞLU H. M., ÇOLAK S., TEKİN İ., BURGAÇ A., BERBEROĞLU S., ORANSAY G., Project Supported by Higher Education Institutions, RIS3 Adana Sanayi Rekabet Gücü Analizi, 2017 - 2018
11. Çolak S., KOSGEB, Müşteri Memnuniyeti ve Takibi Yönetim Sistemi (Customer Satisfaction and Tracking Management System), 2016 - 2018

12. ÇOLAK S., Project Supported by Higher Education Institutions, Kuyruk Teorisi Tabanlı Simulasyon: Bir Üniversite Tıp Fakültesine Ait Hastane Merkez Laboratuvarında Bir Uygulama (Queuing Theory Based Simulation: An Application In A Hospital Central Laboratory Of A University Medical Faculty), 2013 - 2014
13. Çolak S., Yaman D., Project Supported by Higher Education Institutions, Kuyruk Teorisi Tabanlı Simulasyon Bir Üniversite Tıp Fakültesine Ait Hastane Merkez Laboratuvarında Bir Uygulama, 2013 - 2014
14. Çolak S., TUBITAK Project, Dağıtım Rotaları Yönetim Sistemi Geliştirilmesi, 2011 - 2012
15. Çolak S., TUBITAK Project, Araç Rotalama Problemine NöroGenetik Yaklaşım (NeuroGenetic Algorithm for Vehicle Routing Problem), 2008 - 2009

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

1. **Performance analysis of a university hospital blood laboratory via discrete event simulation**  
Kadi D., KUVVETLİ Y., ÇOLAK S.  
SIMULATION-TRANSACTIONS OF THE SOCIETY FOR MODELING AND SIMULATION INTERNATIONAL, vol.92, no.5, pp.473-484, 2016 (SCI-Expanded)
2. **Metaheuristic Methods**  
Agarwal A., ÇOLAK S., Erenguc S.  
HANDBOOK ON PROJECT MANAGEMENT AND SCHEDULING, VOL 1, pp.57-74, 2015 (SCI-Expanded)
3. **A Neurogenetic approach for the resource-constrained project scheduling problem**  
Agarwal A., ÇOLAK S., Erenguc S.  
COMPUTERS & OPERATIONS RESEARCH, vol.38, no.1, pp.44-50, 2011 (SCI-Expanded)
4. **NeuroGenetic approach for combinatorial optimization: an exploratory analysis**  
Agarwal A., ÇOLAK S., Deane J.  
ANNALS OF OPERATIONS RESEARCH, vol.174, no.1, pp.185-199, 2010 (SCI-Expanded)
5. **Heuristics and augmented neural networks for task scheduling with non-identical machines**  
Agarwal A., Colak S., JACOB V. S., PIRKUL H.  
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.175, no.1, pp.296-317, 2006 (SCI-Expanded)
6. **Improvement heuristic for the flow-shop scheduling problem: An adaptive-learning approach**  
AGARWAL A., Colak S., ERYARSOY E.  
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.169, no.3, pp.801-815, 2006 (SCI-Expanded)
7. **Non-greedy heuristics and augmented neural networks for the open-shop scheduling problem**  
Colak S., AGARWAL A.  
NAVAL RESEARCH LOGISTICS, vol.52, no.7, pp.631-644, 2005 (SCI-Expanded)

### Articles Published in Other Journals

1. **Adana Bölgesi'nde Tek Pencere Sistemine Adaptasyon Süreci**  
ÇOLAK S., Alatepeli B., Elçiçek Güneş P.  
Çukurova Üniversitesi Sosyal Bilimler Enstitüsü Dergisi, vol.24, no.1, pp.98-108, 2018 (Peer-Reviewed Journal)
2. **Multi-Mode Resource-Constrained Project-Scheduling Problem With Renewable Resources: New Solution Approaches**  
ÇOLAK S., Agarwal A., Erenguc S.  
Journal of Business & Economics Research (JBER), vol.11, no.11, pp.455-468, 2014 (Peer-Reviewed Journal)
3. **The Task Scheduling Problem: A NeuroGenetic Approach**  
Agarwal A., ÇOLAK S., Deane J., Rakes T.  
Journal of Business & Economics Research (JBER), vol.12, no.4, pp.327-334, 2014 (Peer-Reviewed Journal)
4. **Genetik Algoritmalar Yardımı ile Gezgini Satıcı Probleminin Çözümü Üzerine Bir Uygulama**  
ÇOLAK S.  
Çukurova Üniversitesi Sosyal Bilimler Enstitüsü Dergisi, vol.19, no.3, pp.423-438, 2010 (Peer-Reviewed Journal)

5. **Dağıtım rotaları optimizasyonu için metasezgisel bir yaklaşım**  
ÇOLAK S., GÜLER H.  
Gazi Üniversitesi İktisadi ve İdari Bilimler Fakültesi Dergisi, vol.11, no.2, pp.171-190, 2009 (Peer-Reviewed Journal)
6. **Dağıtım Rotaları Optimizasyonu İçin Meta Sezgisel Bir Yaklaşım**  
ÇOLAK S., GÜLER H.  
Gazi Üniversitesi İktisadi ve İdari Bilimler Fakültesi Dergisi, vol.11, no.2, pp.171-189, 2009 (Scopus)

## Books & Book Chapters

1. **Metaheuristic Methods**  
Agarwal A., ÇOLAK S., Erenguc S.  
in: Handbook on Project Management and Scheduling Vol.1, Christoph Schwindt, Jürgen Zimmermann, Editor, Springer, New York, pp.57-74, 2015
2. **Metaheuristic Methods**  
ANURAG A., ÇOLAK S., ERENGUC S.  
in: Handbook on Project Management and Scheduling, Jürgen Zimmermann and Schwindt, Christoph, Editor, Springer, pp.57-74, 2015
3. **Resource Constrained Project Scheduling: a Hybrid Neural Approach**  
ÇOLAK S., Agarwal A., Erenguc S.  
in: Perspectives in Modern Project Scheduling, Joanna Jozefowska and Jan Weglarz , Editor, Springer, New York, pp.297-318, 2006

## Academic and Administrative Experience

2012 - Continues	<b>Head of Department</b>	Cukurova University, İktisadi Ve İdari Bil. Fak., İşletme
2017 - 2024	<b>Faculty Board Member</b>	Cukurova University, Kozan İşletme Fakültesi
2017 - 2024	<b>Faculty Management Board Member</b>	Cukurova University, Kozan İşletme Fakültesi
2013 - 2020	<b>Assistant Director of the Institute</b>	Cukurova University, Sosyal Bilimler Enstitüsü
2013 - 2020	<b>Institute Board Member</b>	Cukurova University, Sosyal Bilimler Enstitüsü
2013 - 2020	<b>Erasmus Program Institutional Coordinator</b>	Cukurova University, Sosyal Bilimler Enstitüsü
2013 - 2014	<b>Faculty Management Board Member</b>	Cukurova University, İktisadi Ve İdari Bil. Fak., İşletme
2013 - 2014	<b>Faculty Board Member</b>	Cukurova University, İktisadi Ve İdari Bil. Fak., İşletme

## Scientific Refereeing

Computers & Operations Research, SCI Journal, January 2014  
Computers & Industrial Engineering, SCI Journal, July 2013

European Journal of Operational Research, SCI Journal, April 2013  
Endüstri Mühendisliği Dergisi, National Scientific Refreed Journal, February 2013  
Decision Sciences, SCI Journal, January 2012  
Applied Mathematics and Computation, National Scientific Refreed Journal, April 2011  
Gazi University Journal of Science, Other Indexed Journal, March 2011  
Information Technology and Management, SCI Journal, June 2010  
Journal Operational Research: An International Journal, SCI Journal, April 2010  
Information Sciences, Other Indexed Journal, April 2009

## Metrics

Publication: 16  
Citation (WoS): 142  
Citation (Scopus): 192  
H-Index (WoS): 5  
H-Index (Scopus): 5

## Research Areas

Social Sciences and Humanities, Management, Production Management, Quantitative Methods, Logistics Management, Production and Service Systems, Industrial Engineering, Optimization Theory and Methods, Production Planning and Control, Scheduling, Project Management, Engineering and Technology

## Non Academic Experience

Business Establishment Private, INFORMS AR-GE BİL. DAN. MÜH. EĞT. VE YAZ. HİZ. TİC. LTD. ŞTİ., INFORMS AR-GE  
University, ÇUKUROVA ÜNİVERSİTESİ, TEKNOLOJİ TRANSFER OFİSİ  
Technology Development Zone, ÇUKUROVA TEKNOLOJİ GELİŞTİRME BÖLGESİ YÖNETİCİ A.Ş., ÇUKUROVA TEKNOLOJİ  
GELİŞTİRME BÖLGESİ YÖNETİCİ A.Ş. (ÇUKUROVA TEKNOKENT)  
Non-profit Organisation, TÜRKİYE ODALAR VE BORSALAR BİRLİĞİ, ADANA İLİ ODA VE BORSALARI