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h-index (Scopus):
7

Citations (Scopus):
314

Supervised MSc Theses

#	Thesis title	By	Date
1	Improving the intrusion detection systems in IOT environment using machine learning techniques	Amir Mehrabihaghihamedani & Hamidreza Shahriari	February 2022
2	improving concolic testing for Program Vulnerability analysis using function summarization	Ali Bishekolaei & Hamidreza Shahriari	October 2021
3	A method for analysis of malware developed in flutter framework	Reza Saeedi & Hamidreza Shahriari	April 2021
4	A Reputation-Based Trust Model Using Blockchain	Pedram Motamedi & Hamidreza Shahriari	September 2020
5	Designing an E- voting System with protecting voters privacy using Blockchain	Solat Houshmand & Hamidreza Shahriari	July 2020
6	a Method For Protecting Users Privacy Using Blockchain	Reyhaneh Afkhami & Hamidreza Shahriari	July 2020
7	A Model for Confidence of Users Ratings in Trust and Reputation Systems	Mohammad Reza Asghari & Hamidreza Shahriari	June 2020
8	Improving trust-based cloud services composition	Mohammad Hossein Fallah & Hamidreza Shahriari	July 2019
9	Improving Detection of Ransomwares befor Execution Phase	Saeid Salehi & Hamidreza Shahriari	February 2019
10	Enhancing security in electronic exams using Multi -factor authentication	Ziba Faghieh & Hamidreza Shahriari	February 2019

11	Opinion fraud Prediction Using Graphs	Nasser Shateri & Hamidreza Shahriari	February 2019
12	A Method for Predicting Vulnerability of Web Applications using Program Analysis	Ladan Tazik & Hamidreza Shahriari	February 2019
13	Improving Detection of Security Vulnerabilities in Android Applications Via Dynamic Analysis	Sajad Asadi & Hamidreza Shahriari	January 2019
14	Improving detection of private Information Leakage in Android Applications using static Analysis	Zohreh Bohluli & Hamidreza Shahriari	February 2018
15	Improving Privacy Preserving in Big Data Publishing	Mahdi Khoshnood Mansoorkhani & Hamidreza Shahriari	February 2018
16	Improving Security Vulnerabilities Detection in Android Applications Using Static Analysis	Mohammad Mokhtari & Hamidreza Shahriari	February 2017
17	Improvement of Detection of Smartphone Botnets Using Host and Network Based Analysis	Somayeh Esmaeili Ghomi & Hamidreza Shahriari	February 2017
18	A Context-Aware Privacy Mechanism for Online Social Networks	Maryam Sadat Babaei & Hamidreza Shahriari	January 2017
19	detection of bitcoin miner botnet using host based approach	Atefeh Zareh Chahoki & Hamidreza Shahriari	February 2016
20	detecting code reuse attacks in mobile application markets to improve user trust	Farzane Aminmansour & Hamidreza Shahriari	February 2016
21	Detection of Logic Vulnerabilities in Web-based Applications using Fuzzing Methods	Faezeh Kalantari & Hamidreza Shahriari	February 2016
22	A framework for Ransomware Detection based on Behavioral Analysis	Mohammad Mehdi Ahmadian & Hamidreza Shahriari	October 2015
23	An anomaly based approach to detect database attacks	Ali Piroozi & Hamidreza Shahriari	August 2015
24	Detection of access control vulnerabilities in web application	Alireza Ranjbaran & Hamidreza Shahriari	October 2014
25	Behavior-based detection of jump-oriented programming shell code	Aliakbar Sadeghi Baghsorkhi & Hamidreza Shahriari	October 2014
26	A trust model in service-oriented environments using learning automata	Amir Khoshkbarchi Dehkhargani & Hamidreza Shahriari	October 2014
27	design and implementation of learning based web application firewall	Mohammad Hassan Rahiminasab & Hamidreza Shahriari	October 2014
28	Detection of malicious web browser extensions	Mina Alsadat Khazaei & Hamidreza Shahriari	October 2014
29	Online Detection of Attack Through Monitoring of Data Base Queries	Amir Esmaeili & Hamidreza Shahriari	September 2014
30	improving graybox Fuzzing via Binary Analysis	Alireza Emadoddin & Hamidreza Shahriari	July 2014
31	Design Of Security For University Education Management Softwares	Maryam Hashemi Dehkordi & Hamidreza Shahriari	May 2014
32	Internet Payment fraud detection using data mining	Marzieh Hosseiny & Hamidreza Shahriari	May 2014

33	Analysis of security vulnerabilities in java applications	Ehsan Sabzi & Hamidreza Shahriari	May 2014
34	Detection of Inference Attack in Database Using Database Firewall	& Hamidreza Shahriari	March 2014
35	Designing & implementing CERT Core processes for a Sample Bank Using process Management Tools	Masoud Hayeri Khyavi & Hamidreza Shahriari	October 2013
36	improving whitebox fuzzing for Software vulnerability analysis via quantification of the risks of paths	Mehrdad Abdi & Hamidreza Shahriari	October 2013
37	Fraud Detection using Process Mining in Process Aware Systems	Shahla Mardani & Hamidreza Shahriari	October 2013
38	Designing a framework for choosing security cloud services based on risk analysis	Sara Saadat & Hamidreza Shahriari	October 2013
39	preserving anonymity in published database tables with multiple sensitive attributes	Iman Vakilineia & Hamidreza Shahriari	February 2013
40	context-based trust inference of social networks using data mining technics	Hossein Mohammadhassanzadeh & Hamidreza Shahriari	February 2013
41	detecting the vulnerabilities of web applications using data fiow analysis	Mahmoud Ghorbanzadeh & Hamidreza Shahriari	October 2012
42	designing a specification-based intrusion detection system for databases in transaction and user task levels	Mostafa Doroudian & Hamidreza Shahriari	September 2012
43	Designing a financial computer emergency response team	Majid Mohammadi Rad & Hamidreza Shahriari	July 2012
44	A framework of preseving privacy for mobil health monitoring	Shafagh Alipour & Hamidreza Shahriari	May 2012
45	a method for enforcing write access control in outsourced databases using key management	Sajjad Omid & Hamidreza Shahriari	February 2012
46	anomaly detection using transaction relationships in databases	Marzieh Esmaeili & Hamidreza Shahriari	February 2012
47	Model to predict accidents in the streets,based on neuralnetwork and spatial data analysis	Hamed Rezaeifar & Hamidreza Shahriari	January 2012
48	A framework for drug distribution based on rfid technology	Nasim Azimi & Hamidreza Shahriari	October 2011
49	privacy preservation in published social network data	Ahmad Saharkhiz & Hamidreza Shahriari	October 2011
50	quantitative analysis of computer networks vulnerabilities using attack graph and vulnerability scoring systems	Elahe Samie Ghahfarokhi & Hamidreza Shahriari	February 2011
51	modeling reputation systems based on bounded rationality in games	Faezeh Bahrameyan & Hamidreza Shahriari	February 2011
52	threat propagation modeling based on the relationship of assets and vulnerabilities for security risk analysis	Mahla Asghari & Hamidreza Shahriari	February 2011
53	Compositional Quantitative Evaluation of Computer Systems Valnerabilities	Hossein Homaei & Hamidreza Shahriari	June 2010

Books

#	Title	Author(s)	Publisher country	publication date	version
Portal Records					
1	Operating System Concepts (9th Edition)	Ali Reza Rouhi, Bahman Zamani, Hamidreza Shahriari	Iran (Islamic Republic of)	February 2015	1
2	Operating System Concepts	Alireza Rouhi, Hamidreza Shahriari	Iran (Islamic Republic of)	December 2011	1

Journal Papers

Portal Records

- 1 Seyed Mohammad Ghaffarian Anberan, Hamidreza Shahriari, "Neural Software Vulnerability Analysis using Rich Intermediate Graph Representations of Programs", INFORMATION SCIENCES, May 2021 Vol. 553, Num. 1, Page 189-207, May 2021,
- 2 Mahmoud Ghorbanzadeh, Hamidreza Shahriari, "Detecting Application Logic Vulnerabilities via Finding Incompatibility between Application Design and Implementation", IET SOFTWARE, March 2020 Vol. 14, Num. 0, Page 0-0, March 2020,
- 3 Mahmoud Ghorbanzadeh, Hamidreza Shahriari, "ANOVUL: Detection of Logic Vulnerabilities in Annotated Programs via Data and Control Flow Analysis", IET INFORMATION SECURITY, January 2020 Vol. 14, Num. 3, Page 352-364, January 2020,
- 4 Mina Alsadat Khazaei, Hossein Homaei, Hamidreza Shahriari, "OPEXA: analyser assistant for detecting over-privileged extensions", IET INFORMATION SECURITY, November 2018 Vol. 12, Num. 6, Page 558-565, November 2018,
- 5 Hossein Homaei, Hamidreza Shahriari, "Athena: A framework to automatically generate security test oracle via extracting policies from source code and intended software behaviour", INFORMATION AND SOFTWARE TECHNOLOGY, November 2018 Vol. 107, Num. 0, Page 112-124, November 2018,
- 6 Ehsan Khoshhalpour, Hamidreza Shahriari, "BotRevealer: Behavioral Detection of Botnets based on Botnet Life-cycle", The ISC International Journal of Information Security, December 2017 Vol. 9, Num. 2, Page 1-7, December 2017,
- 7 Seyed Mohammad Ghaffarian Anberan, Hamidreza Shahriari, "Software Vulnerability Analysis and Discovery Using Machine-Learning and Data-Mining Techniques: A Survey", ACM COMPUTING SURVEYS, August 2017 Vol. 50, Num. 4, Page 1-36, August 2017,
- 8 Aliakbar Sadeghi Bagsorkhi, Farzane Aminmansour, Hamidreza Shahriari, "Dwarf frankenstein is still in your memory: tiny code reuse attacks", The ISC International Journal of Information Security, March 2017 Vol. 9, Num. 1, Page 53-72, March 2017,
- 9 Hossein Homaei, Hamidreza Shahriari, "Seven Years of Software Vulnerabilities: The Ebb and Flow", IEEE SECURITY & PRIVACY, February 2017 Vol. 15, Num. 1, Page 58-65, February 2017,
- 10 Farzane Aminmansour, Hamidreza Shahriari, "Aggrandizing the Beast's Limbs: Patulous Code Reuse Attack on ARM Architecture", The ISC International Journal of Information Security, January 2017 Vol. 8, Num. 1, Page 39-52, January 2017,
- 11 Amir Khoshkbarchi, Hamidreza Shahriari, "Coping with unfair ratings in reputation systems based on learning approach", ENTERPRISE INFORMATION SYSTEMS, August 2016 Vol. 0, Num. 0, Page 1-19, August 2016,
- 12 Mostafa Doroudian, Hamidreza Shahriari, "A Hybrid Approach for Database Intrusion Detection at Transaction and Inter-transaction Levels", The ISC International Journal of Information Security, April 2015 Vol. 6, Num. 2, Page 155-167, April 2015,

- 13 Hossein Mohammadhassanzadeh, Hamidreza Shahriari, "Prediction of User's Trustworthiness in Web-based Social Networks via Text Mining", The ISC International Journal of Information Security, July 2013 Vol. 5, Num. 2, Page 56-72, July 2013,
- 14 Faezeh Bahrameyan, Hamidreza Shahriari, "An Interactive Mechanism for Collaborative Networks using Random Matching Game", The CSI Journal on Computer Science and Engineering(JCSE), May 2013 Vol. 9, Num. 3, Page 80-88, May 2013,
- 15 Hossein Homaei, Hamidreza Shahriari, "Compositional Approach to Quantify the Vulnerability of Computer Systems", COMPUTER JOURNAL, October 2011 Vol. 54, Num. 10, Page 1616-1631, October 2011,
- 16 Hamidreza Shahriari, Mohammad Sadegh Makarem, Marjan Sirjani, Rasool Jalili, Ali Movaghar, "Vulnerability analysis of networks to detect multiphase attacks using the actor-based language Rebeca", COMPUTERS & ELECTRICAL ENGINEERING, September 2010 Vol. 36, Num. 5, Page 874-885, September 2010,
- 17 Hamidreza Shahriari, "Topological Analysis of Multi-Phase Attacks Using Expert Systems", , May 2008 Vol. , Num. 3, Page 0-0, May 2008,
- 18 Hamidreza Shahriari, "Vulnerability Take Grant (VTG): An efficient approach to analyze network vulnerabilities", , August 2007 Vol. , Num. 26, Page 0-0, August 2007,
- 19 Morteza Amini, Hamidreza Shahriari, "RT-UNNID: A practical solution to real-time network-based intrusion detection using unsupervised neural networks", , September 2006 Vol. , Num. 25, Page 0-0, September 2006,

Conference Papers

Portal Records

- 1 Somayeh Esmaeili Ghomi, Hamidreza Shahriari, "PodBot: A New Botnet Detection Method by Host and Network-Based Analysis ", 2019 27th Iranian Conference on Electrical Engineering (ICEE), April 2019
- 2 Saeid Salehi, Hamidreza Shahriari, Mohammad Mehdi Ahmadian, Ladan Tazik, "A Novel Approach for Detecting DGA-based Ransomwares ", Iranian Society of Cryptology, August 2018
- 3 Mahdi Khoshnood Mansoorkhani, Seyed Mohammad Ghaffarian Anberan, Hamidreza Shahriari, "A Hybrid approach for Preserving Privacy in Big data Publishing ", International ISC (Iranian Society of Cryptology) Conference on Information Security and Cryptology (ISCISC), August 2018
- 4 Zohreh Bohluli, Hamidreza Shahriari, "Detecting Privacy Leaks in Android Apps using Inter-Component Information Flow Control Analysis ", International ISC (Iranian Society of Cryptology) Conference on Information Security and Cryptology (ISCISC), August 2018
- 5 Atefeh Zareh Chahoki, Hamidreza Shahriari, "BitcoinTrap: Detection of Bitcoin Miner Botnet Using Host Based Approach ", International ISC (Iranian Society of Cryptology) Conference on Information Security and Cryptology (ISCISC), August 2018
- 6 Mohammad Mehdi Ahmadian, Hamidreza Shahriari, "ZentFOX: A Framework for High Survivable Ransomwares Detection ", 13th International Iranian Society of Cryptology Conference on., September 2016
- 7 Mohammad Mehdi Ahmadian, Hamidreza Shahriari, "A framework for Detecting High Survivable Ransomwares using hybrid behavioral analysis and Bayesian network ", 21st National CSI Computer Conference, March 2016
- 8 Aliakbar Sadeghi Bagsorkhi, Farzane Aminmansour, Hamidreza Shahriari, "Tiny Jump-Oriented Programming Attack (A Class of Code Reuse Attacks) ", 12th ISC (Iranian Society of Cryptology) Conference on Information Security and Cryptology, September 2015
- 9 Aliakbar Sadeghi Bagsorkhi, Farzane Aminmansour, Hamidreza Shahriari, "Tiny Jump-Oriented Programming Attack (A Class of Code Reuse Attacks) ", 12th ISC (Iranian Society of Cryptology) Conference on Information Security and Cryptology, September 2015
- 10 Farzane Aminmansour, Hamidreza Shahriari, "Patulous Code Reuse Attack: A Novel Code Reuse Attack on ARM Architecture (A Proof of Concept on Android OS) ", 12th ISC (Iranian Society of Cryptology) Conference on Information Security and Cryptology, September 2015

- 11 Mohammad Mehdi Ahmadian, Hamidreza Shahriari, Seyed Mohammad Ghaffarian Anberan, "Connection-Monitor & Connection-Breaker: A Novel Approach for Prevention and Detection of High Survivable Ransomwares ", 12th International ISC Conference on Information Security and Cryptography, September 2015
- 12 Amir Khoshkbarchi Dehkhargani, Hamidreza Shahriari, "Learning Approach for Dealing with Unfair Ratings in Service Provision ", 23rd Iranian Conference on Electrical Engineering, May 2015
- 13 Alireza Ranjbaran, Hamidreza Shahriari, "Detection and exploitation of file system access control vulnerabilities in web applications ", 11th International ISC Conference on Information Security and Cryptology, September 2014
- 14 Mehrdad Abdi, Hamidreza Shahriari, "Improving White box Fuzzing via Quantifying Risk of Paths ", 11th International ISC Conference on Information Security & Cryptology, September 2014
- 15 Sara Saadat, Hamidreza Shahriari, "Towards a process-oriented framework for improving trust and security in migration to cloud ", 11th international ISC conference on information security & cryptology, September 2014
- 16 Aliakbar Sadeghi Baghsorkhi, Farzane Aminmansour, Hamidreza Shahriari, "Tazhi: A Novel Technique for Hunting Trampoline Gadgets of Jump Oriented Programming ", 11th International ISC Conference on Information Security and Cryptology, September 2014
- 17 Amir Khoshkbarchi Dehkhargani, Hamidreza Shahriari, Mehdi Amjadi, "Comparison-Based Agent Partitioning with Learning Automata: A Trust Model for Service-Oriented Environments ", 11th International ISC Conference on Information Security & Cryptology, September 2014
- 18 Mostafa Doroudian, Hamidreza Shahriari, "Database intrusion detection system for detecting malicious behaviors in transaction and inter-transaction levels ", Seventh International Symposium on Telecommunications (IST2014), September 2014
- 19 Amir Khoshkbarchi Dehkhargani, Hamidreza Shahriari, Mehdi Amjadi, "A Trust Model for Service Selection, Using Learning Automata-Based Approach ", The Seventh International Symposium on Telecommunications (IST2014), September 2014
- 20 Mostafa Doroudian, Hamidreza Shahriari, "A Hybrid Approach for Database Intrusion Detection at Transaction and Inter-transaction Levels ", The 6th Conference on Information and Knowledge Technology, May 2014
- 21 Shahla Mardani, Hamidreza Shahriari, "A new method for occupational fraud detection in process aware information systems ", 2013 10th International ISC Conference on Information Security and Cryptology (ISCISC), August 2013
- 22 Shahla Mardani, Hamidreza Shahriari, "A New Method for Occupational Fraud Detection in Process Aware Information Systems ", 10th International ISC Conference on Information Security & Cryptology, August 2013
- 23 Mostafa Doroudian, Hamidreza Shahriari, "A Database Intrusion Detection System for detecting malicious behaviors in Transactions and Inter-Transaction Levels ", 21st Iranian Conference on Electrical Engineering - ICEE2013, May 2013
- 24 Fateme Shafieenejad, Hamidreza Shahriari, "Fuzzy logic and Takagi-Sugeno Neural-Fuzzy For Detecting Bank Fraud Transactions ", 7th Annual Conference on e-commerce in developing countries with focus on E-Security, April 2013
- 25 Ramtin Aryan, Hamidreza Shahriari, "Botnet detection based on network behavioral and anomaly detection ", 18th National CSI Computer Conference, March 2013
- 26 Hossein Mohammadhassanzadeh, Hamidreza Shahriari, "Using User Similarity to Infer Trust Values in Social Networks Regardless of Direct Ratings ", 9th International ISC Conference on Information Security and Cryptology (ISCISC '12), Tabriz, 2012, September 2012
- 27 Mostafa Doroudian, Hamidreza Shahriari, "Database Intrusion Detection System using Specification-based Approach in Transaction Level and Anomaly-based-Detection in Inter-transaction Level ", 9th International ISC Conference on Information Security and Cryptology (ISCISC'12, September 2012
- 28 Mahmoud Ghorbanzadeh, Hamidreza Shahriari, "Static Detection of Vulnerabilities in Web Applications using Reverse Data Flow Analysis for maximum coverage of critical sinks ", 9th International ISC Conference on Information Security and Cryptology, September 2012
- 29 Mahmoud Ghorbanzadeh, Hamidreza Shahriari, "Preventing Second Order SQL Injection Vulnerabilities Using Nested Query ", 9th International ISC Conference on Information Security and Cryptology, September 2012

- 30 Masoud Mansoury, Hamidreza Shahriari, Mehdi Shajari, "Trust Evaluation Using Items Ratings in Online Communities ", 20th Iranian Conference on Electrical Engineering, May 2012
- 31 Mahmoud Ghorbanzadeh, Hamidreza Shahriari, "A New Attack: Cross Site SQL Injection (XSI) and Prevention of Injection Vulnerabilities ", 20th Iranian Conference on Electrical Engineering, May 2012
- 32 Mahmoud Ghorbanzadeh, Hamidreza Shahriari, "Static Detection of Second Order Injection Vulnerabilities Using Query Dependency Graph ", 17th CSI Computer Conference, March 2012
- 33 Morteza Sargolzaei Javan, Mehdi Garakani, Hamidreza Shahriari, Mohammad Kazem Akbari, "A similarity measurement method using ontology for context based trust systems ", 17th CSI Computer Conference, March 2012
- 34 Hamed Rezaeifar, Hamidreza Shahriari, "Investigating environmental factors and urban features affecting pedestrian accidents in Mashhad, Iran based on negative binominal regression ", The 11th conference on Traffic & Transportation Engineering, February 2012
- 35 Marzieh Esmaeili, Hamidreza Shahriari, "Anomaly detection in database using temporal mining ", The Fifth Iran Data Mining Conference / IDMC 2011, December 2011
- 36 Mohammad Amin Morid, Amin Omidvar, Hamidreza Shahriari, "An Enhanced Method for Computation of Similarity between the Contexts in Trust Evaluation using Weighted Ontology ", 10th IEEE International Conference on Trust, Security and Privacy in Computing and Communications, November 2011
- 37 Mohsen Raeesi, Alireza Saebi, Hamidreza Shahriari, S.Alireza Hashemi Golpayegany, "A strategy-based trust model to management of supply-chain intelligent agents ", 8th International Conference on Strategic Management, October 2011
- 38 Ahmad Saharkhiz, Hamidreza Shahriari, "A METHOD FOR PRESERVING PRIVACY IN PUBLISHED MULTI-RELATIONAL SOCIAL NETWORKS ", International Conference on Knowledge Management and Information Sharing - KMIS 2011, October 2011
- 39 Naeemeh Arastooie, Amin Omidvar, Hamidreza Shahriari, Mohammad Kazem Akbari, "Computing trust value for new service providers using KNN data mining ", 6th Conference on E-commerce and digital Economy, October 2011
- 40 Elahe Samie Ghahfarokhi, Hamidreza Shahriari, "Quantitative vulnerability metric for computer networks using attack graph and vulnerability scoring system ", 8th International ISC Conference on Information Security and Cryptography (ISCISC11), September 2011
- 41 Sajjad Omid, Hamidreza Shahriari, "Enforcing Write Access Control in Data Outsourced Scenario Using Encryption Key Management ", 8th International ISC Conference on Information Security and Cryptology (ISCISC`11) Ferdowsi University of Mashhad-Septembr 14-15, 2011, September 2011
- 42 Amin Omidvar, Mohammad Amin Morid, Hamidreza Shahriari, "A Model to Calculate Trust In Social Networks using Text Mining ", 2nd International Contemporary Issues on Computer and Information Science, May 2011
- 43 Faezeh Bahrameyan, Hamidreza Shahriari, "An Incentive Mechanism for Cooperative Networks Using Central Reputation System and Games ", 16th National Iranian Society of Computer Conference, March 2011
- 44 Elahe Samie Ghahfarokhi, Hamidreza Shahriari, "A Model for Accumulative Impact Analysis of Security Vulnerabilities ", 16th Annual International Computer Society of Iran Computer Conference (CSICC 2011), March 2011
- 45 Mahla Asghari, Hamidreza Shahriari, "Impact propagation in security risk analysis by using of asset dependency graph ", 16th National Iranian Society of Computer Conference, March 2011
- 46 Ali Esmaeeli, Hamidreza Shahriari, "Privacy Protection of Grid Service Requesters through Distributed Attribute Based Access Control Model ", 5th International Conference on Grid and Pervasive Computing, May 2010
- 47 Hamidreza Shahriari, "L-Diversity for Privacy Protection of Users in Location based Services ", 18th Iranian Conference on Electrical Engineering, May 2010
- 48 Hamidreza Shahriari, "A Secure Mutual Authentication Protocol for RFID systems ", 18th Iranian Conference on Electrical Engineering, May 2010

- 49 Hamidreza Shahriari, "Privacy protection of grid service requesters through distributed attribute based access control model ", , February 2010
- 50 Hamidreza Shahriari, Mohammad Reza Meybodi, "A Call Admisson control Algorithm for ATM using DFLA Automaton ", , February 2002
- 51 Hamidreza Shahriari, Mohammad Reza Meybodi, "Call Admisson Control in ATM Network Using Learning Automata Based on Equivalent Capacity Method ", , February 2001
- 52 Hamidreza Shahriari, Mohammad Reza Meybodi, "Call Admission Control in ATM Networks Using Variable structure Learning Automata ", , May 2000

Taught Courses

#	Course title	Description	Headlines	Date
1	Principles of Database Design	Database concepts, Data models such as Relational and ER, Relational databases, Relational algebra, Relational Calculus, Database design and normalization		Spring 2022
2	Advanced Concepts in Secure Computing(secure Computer Systems)	Learning main security concepts, threats, attacks in computer systems		Fall 2021
3	Special Topics (Information Security)	The main objective of the course is security in information technology and network communications. In more details, the students will learn foundations of security and security mechanisms, specially cryptography, authentication, and security challeng		Fall 2021
4	Database Security	To acquaint students with main security problems in database and security solutions		Spring 2021
5	Principles of Database Design	Database concepts, Data models such as Relational and ER, Relational databases, Relational algebra, Relational Calculus, Database design and normalization		Spring 2021