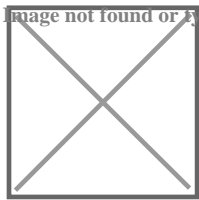


# Dr. Mehrdad Mokhtari



Adjunct Professor  
Amirkabir University of Technology(AUT)  
(Tehran Polytechnic)

## Biography:

Mehrdad Mokhtari received the MS and PhD degrees in electrical engineering with honor, both from the Universiti Teknologi Malaysia (UTM), Johor, Malaysia, in 2013 and 2016, respectively. He finished his advanced research in soil ionization modeling as a postdoctoral researcher in Amirkabir University of Technology (AUT) under support of the Iran's National Elites Foundation and get his certificate with honor. He is currently with the Amirkabir University of Technology as an Adjunct Professor in Iran Grid Secure Operation Research Center. His research interests include the power system transient simulation, software development for high-frequency grounding systems, and insulation coordination. He is a project manager of several industrial projects and head of Grounding System Technology Lab. He is an author and co-author of several books, journal and conference papers.

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**ScopusAuthorId:**

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Amirkabir University of Technology (Tehran Polytechnic)

## Educational Records

## Teaching

- 1 - ????
- 2 - ????

## Publication

## Journal Papers

NO	TITLE	YEAR
1	Integration of Energy Balance of Soil Ionization in CIGRE Grounding Electrode Resistance Model Mokhtari M and Gharehpetian G. B. IEEE Transactions on Electromagnetic Compatibility	2017
2	A New Soil Ionization Model for Grounding Electrodes Mokhtari M., Abdul-Malek Z., Gharehpetian G. B. International Transactions on Electrical Energy Systems	2017
3	The Effect of Soil Ionization on Transient Grounding Electrode Resistance in Non-Homogeneous Soil Conditions Mokhtari M., Abdul-Malek Z., Salam Z. International Transactions on Electrical Energy Systems	2016
4	A Critical Review on Soil Ionisation Modelling for Grounding Electrodes Mokhtari M., Abdul-Malek Z. Archives of Electrical Engineering	2016
5	Integration of Frequency Dependent Soil Electrical Properties in Grounding Electrode Circuit Model Mokhtari M., Abdul-Malek Z., Wooi C. L. International Journal of Electrical and Computer Engineering	2016
6	Statistical Analysis on Preliminary Breakdown Pulses of Positive Cloud-to-Ground Lightning in Malaysia Wooi C. L., Abdul-Malek Z., Ahmad N. A., Mokhtari M., Salimi B. International Journal of Electrical and Computer Engineering	2016
7	An Improved Circuit-Based Model of a Grounding Electrode by Considering the Current Rate of Rise and Soil Ionization Factors Mokhtari M., Abdul-Malek Z., Salam Z. IEEE Transactions on Power Delivery. 30(1): 211-219	2015
8	A Review of Recent Studies on Positive Lightning Wooi C. L., Abdul-Malek Z., Ahmad N. A., Mokhtari M., Khavari A. H. Applied Mechanics and Materials	2015
9	Cloud-to-Ground Lightning in Malaysia: A Review Study Wooi C. L., Abdul-Malek Z., Ahmad N. A., Mokhtari M., Khavari A. H. Applied Mechanics and Materials	2015
10	The Effect of Grounding Electrode Parameters on Soil Ionization and Transient Grounding Resistance using Electromagnetic Field Approach Mokhtari M., Abdul-Malek Z. Applied Mechanics and Materials	2014

## Conference Papers

NO	TITLE	YEAR
1	M. Mokhtari, Gharehpetian G. B., Mousavi Agah M. Distributed Generation Systems: Design, Operation, and Grid Integration UK: Elsevier, Butterworth-Heinemann, 2017, pp. 1-21	2017

2	<b>CN Tower Modeling Using EMTP and Taking into Account Frequency Dependent Grounding</b> Mokhtari M., and Gharehpetian G. B. The 5th Iranian Conference on Engineering Electromagnetics? Shahid Rajaei Teacher Training University, Tehran, Iran, 19, 20 April, 2017, pp. 28-32.	2017
3	<b>Lightning Current Distribution on Tower with Uniform and Nonuniform Soils</b> Mokhtari M., Zakaria S. N. A., Abdul-Malek Z., Wooi C. L. MyHVnet colloquium. 25 January, 2016. Johor, Malaysia: Universiti Teknologi Malaysia. 53.	2016
4	<b>Effects of Frequency Dependent Soil Electrical Properties on Induced Transient Voltages of Buried Pipelines</b> Mokhtari M., Ho F. Y., Abdul-Malek Z. MyHVnet colloquium. Johor, Malaysia: Universiti Teknologi Malaysia. 54.	2016
5	<b>The Effect of Frequency Dependence Soil Electrical Properties on Lightning Transient Response of Grounding Electrodes.</b> Mokhtari M., Abdul-Malek Z., Wooi C. L. 1st International Conference on Innovation in Science and Technology (IICIST 2015). 20 April, 2015. Kuala Lumpur, Malaysia: Universiti Teknologi Malaysia. 504-507.	2015
6	<b>Preliminary Breakdown of Positive Lightning in Tropical Region</b> Wooi C. L., Abdul-Malek Z., Ahmad N. A., Mokhtari M., Salimi B. 1st International Conference on Innovation in Science and Technology (IICIST 2015). Kuala Lumpur, Malaysia: Universiti Teknologi Malaysia. 623-627	2015
7	<b>The Effects of Frequency on Soil Electromagnetic Model Behavior</b> Mokhtari M., Abdul-Malek Z., Wooi C. L. International Conference on Energy and Thermal Sciences 2014. 26-27 November, 2014. Malaysia: Universiti Teknologi Malaysia. 169-172.	2014
8	<b>The Effects of Lightning Current Parameters on the Residual Voltage of ZnO Lightning Arrester with High Frequency Ground Model.</b> Mokhtari M., Abdul-Malek Z., Khosravifard M., Ahmadi H., Omid H. 4th International Graduates Conference on Engineering, Science, and Humanities. Johor, Malaysia: Universiti Teknologi Malaysia. 156-159.	2013
9	<b>Impact Evaluation of 2011 Significant Events on Iran Energy Sector</b> Omid H., Ahmadi H., Mokhtari M., Khosravifard M., Mohammad N. A. 4th International Graduates Conference on Engineering, Science, and Humanities. 16-17 April, 2013. Johor, Malaysia: Universiti Teknologi Malaysia. 141-147.	2013
10	<b>Circuit-Based High frequency Dynamic Model of Grounding System</b> Mokhtari M. Electrical Engineering Research Colloquium for Electronics, Power, Instrumentation, Control, and Communication (EERC-2013). Johor, Malaysia: Universiti Teknologi Malaysia. 2013. 88-89.	2013

## Books

NO	TITLE	YEAR
1	<b>Technical Report: The Measurement of Electromagnetic Intensity for MAPNA Turbine Manufacturing Company Site</b> Mokhtari M. and Gharehpetian G. B., Report number: 40404/, Iran Grid Secure Operation Research Institute, Electrical Engineering Department, Amirkabir University of Technology, Tehran, Iran, 2021	2021
2	<b>Protection against lightning - Thunderstorm warning systems</b> Mokhtari M. Standard Editorial Board: INSO-IEC 62793, Iran Grid Secure Operation Research Institute, Electrical Engineering Department, Amirkabir University of Technology, Tehran, Iran, 2021.	2021

3	Safety procedures for reduction of risk outside of structure Mokhtari M. Standard Editorial Board: INSO-IEC TR 62713, Iran Grid Secure Operation Research Institute, Electrical Engineering Department, Amirkabir University of Technology, Tehran, Iran, 2021.	2021
4	Foundation Earth Electrodes [3]. Mokhtari M Standard Editorial Board: INSO-DIN 18014, Iran Grid Secure Operation Research Institute, Electrical Engineering Department, Amirkabir University of Technology, Tehran, Iran, 2021.	2021
5	Technical Report: The Measurement of Grounding System Electrical Resistance of the Iran Mall West Expansion Project Mokhtari M., Gharehpetian G. B., and Salay Naderi M. Report number: 40404/10213, Iran Grid Secure Operation Research Institute, Electrical Engineering Department, Amirkabir University of Technology, Tehran, Iran	2018
6	Grounding System Transients: Methodology and Modeling M. Mokhtari and G. B. Gharehpetian Germany: LAP Lambert Academic Publishing, 2017, p. 116	2017
7	Progress Earthing Studies for Modern Life Style Mokhtari M., Abdul-Malek Z. Johor Bahru, Malaysia: Universiti Teknologi Malaysia; 59-87	2015

## Patents

NO	TITLE	YEAR
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## Industrial Projects

NO	TITLE	YEAR
1	????? ? ?????? ??? ?????? ?????????? ????? ?????????? ????????? ?????? ?????????? ??? ??????	1399
2	?????? ? ?????? ?????????? ?????? ?????? ?????? ?????????? ????????? ?????? ?????????? ??? ??????	1399
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# Scientific Societies

- 1- ?????? ?? ?????? ??? ?????? ??? ?????? ??????????? ?????? ?????? ?????????????????? ???
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- 4- ?????? ?? ?????? ??? ?????? ? ??????????? ?????? ?????????? ?????? ?? ?????? ?????? TC81

# Awards

- 1- ?????? ?? ?????? Grounding System Transients: Methodology and Modeling ?? ?????? ?????????? ?????? ?????? ?? ?????? ?????? ?? ??????????  
???? ?????????? ?????? ?????? (1397)
- 2- ?????? ?????? ?????? ?????????? ?????? ?? ?? ?????????? ??????????? ?? ?????? ?????????? ?????? (IEEE)?? ??? 2015
- 3- ??? ?? ??? ?????????????? ? ?????? ?????? ?????????????? ?????? ?????????? ?? ?????????? ?????? ?? ?????? ?????????? ?????? ? ?????????? ??????  
(IEEE) ?? ?????????? 2015 ? 2018