

CURRICULUM VITAE

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EDUCATION: *PhD*, Soil Science, University of California, Davis, March 1992.
MS, Soil Science, University of California, Davis, June 1987.
BS, Soil Science, California Polytechnic State University,
San Luis Obispo, December 1983.

POSITIONS HELD: **Associate Proff.**, Soil Science Dept., Tarbiat Modares University. 2005 to present.

Deputy Minister of Technology, Ministry of Science, Research and Technology Feb. 2004 to 2005.

President, Isfahan Scieene and Technology Town. Dec. 2001 to Feb. 2004.

Vice President for Research and Technology, Isfahan Science and Technology Town. July 2000 to 2001.

Director, Central Library, Isfahan Univ. of Technology. 1996 to 2000.

Chair, Graduate Division, College of Natural Res. Isfahan Univ. of Technology. 1995 to 1996.

Chair, Dept. of Range and Water Management, College of Natural Res., Isfahan Univ. of Technology. 1994 to 1995.

Assoc. Prof., Soil Science Dept., Isfahan Univ. of Technology. 2001 to 2005.

Assis. Proff., Soil Science Dept., Isfahan Univ. of Technology. 1992 to 2001.

Teaching Assistant, Dept. of Land, Air and Water Resources, University of California, Davis. 1987 to 1992.

Research Assistant, Department of Land, Air, and Water Resources, University of California, Davis. 1985-1992.

RESEARCH INTEREST:

Pedology, Arid soils, Desertification, Soil geomorphology, Aerial photo interpretation, Remote sensing, Science and Technology Parks.

COURSES TAUGHT:

Undergraduate: Soil Mapping

Graduate: Soil Micromorphology, Geomorphology, Quaternary Geology, Soil Genesis Morphology and Classification

MEMBERSHIPS:

Soil Science Society of Iran (elected as member of Board of Directors 2001-2003)
People for Protecting the Environment and Natural Resources (Green Message)

ACADEMIC EXPERIENCE:

2005 to present, College of Agriculture, Tarbiat Modares University.

1992-2005 College of Agriculture and School of Natural Resources, Isfahan Univ. of Technology

1996-2009 Advisor to 9 Ph.D. students

1993-2009 Advisor to 30 M.S. students

1992-2009 Coordinator of several research projects

1985-1992 Teaching and Research Assistant in Univ. of California, Davis.

PUBLICATIONS:

Bayat, O, H. R. Karimzadeh, M. K. Eghbal and H. Khademi. 2013. Pedogeomorphic evolution of an alluvial fan in central Iran. *Iranian Journal of Natural Resources*. Vol. 66, No. 2 (in press). (in Farsi)

Hamzehpour, N., M. K. Eghbal, P. Bogaert, N. Toomanian and R. S. Sokouti. 2013. Spatial Prediction of Soil Salinity Using Kriging with Measurement Errors and Probabilistic Soft Data. *Arid Land Research and Management*. 27:128–139.

Moravej, K., M. K. Eghbal, N. Toomanian and S. Mahmoodi. 2012. Comparison of automated and manual landform delineation in semi detailed soil survey procedure. *African Journal of Agricultural Research* Vol. 7, No. 17:2592-2600.

Moghiseh, E, A. Heidari, M. Ghanadi Maragheh, H. Towfighi, F. Sarmadian and M. K. Eghbal. 2012. Effects of Forestland Change on Physico-chemical Properties, SOC Storage and Soil Respiration in Kelardasht Area. *Iranian Journal of Soil and Water Research*. Vol. 43, No. 1:37-46.

Farpoor, M. H., M. Neyestani, M. K. Eghbal and I. Esfandiarpour Borujeni, 2012. Soil–geomorphology relationships in Sirjan playa, south central Iran. *Geomorphology* 138: 223–230.

Sanjari, S, M. H. Farpoor, M. K. Eghbal, and I. Esfandiarpour. 2011. Genesis, micromorphology and clay mineralogy of soils on different geomorphic surfaces in Jiroft, Keram. *Journal of Water and Soil*. Vol. 25, No. 2:411-425 (in Farsi)

Khalili-Rad, M, F. Nourbakhsh1, A. Jalalian1, and M. K. Eghbal. 2011. The Effects of Slope Position on Soil Biological Properties in an Eroded Toposequence. *Arid Land Research and Management*, 25:308–312.

Sheklabadi, M., H. Khademi, M.K. Eghbal, E.G. Gregorich and P. St.-Georges. 2009. Overgrazing and climate induced soil biological degradation in central Zagros, Iran. In: A. Faz Cano, A.R. Mermut, J.M. Arocena & R. Ortiz Silla (ed.) *LAND DEGRADATION AND REHABILITATION - Dryland Ecosystems - Advances in GeoEcology* 40, GeoScience Publisher. Reiskirchen, Germany.

Valipour, M, M. K. Eghbal, M. J. Malakouti, and A. H. Khoshgoftarmanesh. 2009. The effects of land use change on land degradation and soil salinity in Shamsabad region in Qom province. *Journal of Sciences and Technology of Agriculture and Natural Resources*. Vol. 12, No. 46: 683-691. (in Farsi) [\(Full Text\)](#)

Salehi, M. H., V. Mohammadi, H. Khademi, and M. K. Eghbal 2007. Upgrading the estimation of surface soil properties by combining traditional soil maps with kriging. *Agricultural Science Journal of Shahid Chamran University*. Vol. 30, No. 4B: 93-106. [\(Full Text\)](#)

- Sheklabadi, M., Khademi, H, Eghbal MK, and Nourbakhsh, F. 2007. Effects of climate and long-term Exclusion on selected soil biology quality indicators in rangelands of central Zagros. *Journal of Sciences and Technology of Agriculture and Natural Resources*. Vol. 11, No. 41: 103-116. (in Farsi) [\(Full Text\)](#)
- Majdi H, Eghbal MK, Karimzadeh HR, and Jalalian A. 2006. Effect of Different Clay Mulches on the Amount of Wind Eroded Materials. *Journal of Sciences and Technology of Agriculture and Natural Resources*. Vol. 10, No. 3(A): 137-149. (in Farsi) [\(Full Text\)](#)
- Toomanian N, Jalalian A, Khademi H, Eghbal MK and Papritz A. 2006. Pedodiversity and pedogenesis in Zayandehrud Valley, central Iran. *Geomorphology* 81 (3-4): 376-393 NOV 29. [\(Full Text\)](#)
- Ayoubi, S., M. K. Eghbal, and A. Jalalian 2006. Study of Micromorphological Evidence of Climate Change During Quaternary Recorded in Paleosols from Isfahan. *Journal of Sciences and Technology of Agriculture and Natural Resources*. Vol. 10, No. 1: 137-151. (in Farsi) [\(Full Text\)](#)
- Torabi, G. H., M. K. Eghbal and A. Jalalian. 2005. Mineralogy of soils and differentiation of hydroxyl interlayer smectite from vermiculite on Sefidrud river terraces in central Gilan Province. *Iranian Journal of Crystallography and Mineralogy*. Vol. 13, No. 1:107-120. (in Farsi) [\(Full Text\)](#)
- Salehi, M. H., H. Khademi, M. K. Eghbal and A. R. Mermut. 2004. Stable Isotope geochemistry of carbonates and organic carbon in selected soils from Chaharmahal Bakhtiari Province, Iran. *Communications in Soil Science and Plant Analysis*. Vol. 35, No. 11-12: 1681-1697. [\(Full Text\)](#)
- Farpour, M.H., H. Khademi, M.K. Eghbal, and H.R. Krouse. 2004. Mode of gypsum deposition in southeastern Iranian soils as revealed by isotopic composition of crystallization water. *Geoderma* 121:233-242. [\(Full Text\)](#)
- Toomanian, N., A. Jalalian and M. K. Eghbal. 2003. Application of the WRB (FAO) and US Taxonomy Systems to gypsiferous soils in Northwest of Isfahan, Iran. *Journal of Agricultural Science and Technology*. 5:51-66. [\(Full Text\)](#)
- Farpour, M. H., M. K. Eghbal and H. Khademi. 2003. Genesis and micromorphology of saline and gypsiferous Aridisols on different geomorphic surfaces in Nough area, Rafsanjan Iran. *Journal of Sciences and Technology of Agriculture and Natural Resources*. Vol. 7, No. 3: 71-93. (in Farsi) [\(Full Text\)](#)
- Ayoubi, S., A. Jalalian, and M. K. Eghbal. 2003. Evidences of climate change recorded in Quaternary paleosols from Isfahan and Emam-Gheis (Chaharmahal & Bakhtiari). *Journal of Sciences and Technology of Agriculture and Natural Resources*. Vol. 7, No. 3: 51-69. (in Farsi) [\(Full Text\)](#)
- Salehi, M. H., H. Khademi and M. K. Eghbal. 2003. Identification and genesis of clay minerals in soils from Farrokhsahr Area, Chaharmahal and Bakhtiari Province. *Journal of Sciences and Technology of Agriculture and Natural Resources*. Vol. 7, No. 1: 73-90. (in Farsi) [\(Full Text\)](#)
- Salehi, M. H., M. K. Eghbal and H. Khademi. 2003. Comparison of soil variability in a detailed and a reconnaissance soil map in central Iran. *Geoderma*. 111: 45-56. [\(Full Text\)](#)
- Ayoubi, S., A. Jalalian, M. K. Eghbal, H. Khademi and M. H. Rouzitalab. 2002. Identification and genesis of clay minerals in two paleosols from Sepahanshahr (Esfahan) and Emam-Gheis (Chaharmahal-Bakhtiari). *Iranian Journal of Crystallography and Mineralogy*. Vol. 10, No. 2:157-178. (in Farsi) [\(Full Text\)](#)
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- Eghbal M. K. and A. Ashtari. 2002. Historical analysis of Hirmand River and its role on life in Sistan. Vol. 2 of Proceedings of the First National Conference on "Water Mitigarion Strategies". March 9 – 10, 2002. Zabol, Iran (in Farsi). [\(Full Text\)](#)
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- Farpour, M. H., H. Khademi and M. K. Eghbal. 2002. Genesis and distribution of palygorskite and associated clay minerals in Rafsanjan soils on different geomorphic surfaces. *Iran Agricultural Research*. Vol. 21, No. 2: 39-60. [\(Full Text\)](#)

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- Torabi Golesefidi H., M.K. Eghbal and M. Kalbasi. 2001. Reduction and redox morphology of the paddy soils on different landforms in Gilan province, northern Iran. Iranian Journal of Agricultural Science. Vol. 32, No. 2:331-343. (in Farsi) [\(Full Text\)](#)
- Mijani K., M. K. Eghbal. 2001. Evaluation of alluvial fans in arid region of Kerman province for controlling flood and water spreading projects. Proceedings of the First National conference on Drought, March 1st and 2nd 2001, Kerman, Iran. pp. 820-827. (in Farsi) [\(Full Text\)](#)
- Farpour M. H., H. Khademi and M. K. Eghbal. 2001. Suitability and limitation of gypsiferous soils for soil and water conservation projects. Proceedings of the First National conference on Drought, March 1st and 2nd 2001, Kerman, Iran. pp. 762-768. (in Farsi) [\(Full Text\)](#)
- Farpour M. H., S. Ayoubi and M. K. Eghbal. 2001. Methods for palaeoclimatological studies. Proceedings of the First National conference on Drought, March 1st and 2nd 2001, Kerman, Iran. pp. 440-450. (in Farsi) [\(Full Text\)](#)
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- Eghbal M. K., M. A. Hajabbasi, and H. T. Golesefidi. 1996. Mechanism of crust formation on a soil in Central Iran. Plant and Soil. 180: 67-73. [\(Full Text\)](#)
- Eghbal M. K. and R. J. Southard. 1993. Stratigraphy and genesis of Durorthids and Haplargids on dissected alluvial fans, western Mojave Desert, California. Geoderma. 59:151-174. [\(Full Text\)](#)
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- Eghbal M. K., R. J. Southard, and L. D. Whittig. 1989. Dynamics of evaporite distribution in soils on a fan-playa transect in the Carrizo Plain, California. Soil Sci. Soc. Am. J. 53:898-903. [\(Full Text\)](#)

PUBLISHED ABSTRACTS:

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- Yazdani, N., M. H. Farpour, and M. K. Eghbal. 2011. Physico-chemical properties and classification of soils in Sarcheshmeh area, Keram. Proceedings of 2nd Conference on Comprehensive Water Resource Management, January, 2011.
- Yazdani, N., M. H. Farpour, and M. K. Eghbal. 2011. Clay mineralogy of soils on a toposequence in Sarcheshmeh, Keram. Proceedings of 2nd Conference on Comprehensive Water Resource Management, January, 2011.
- Neyestani, M., M. H. Farpour, M. K. Eghbal, and I. Esfandiarpour. 2011. Micromorphology and clay mineralogy of soils on different landforms of Kheirabad Playa, Keram. Proceedings of 2nd Conference on Comprehensive Water Resource Management, January, 2011.

Neyestani, M. H. Farpour, I. Esfandiarpour and M. K. Eghbal, 2011. Soil genesis and classification on different geomorphic surfaces of Sirjan Playa, Keram. Proceedings of 2nd Conference on Comprehensive Water Resource Management, January, 2011.

Sanjari, S, M. H. Farpour, M. K. Eghbal, and I. Esfandiarpour. 2011. Micromorphology of soils in Jiroft area, Keram. Proceedings of 2nd Conference on Comprehensive Water Resource Management, January, 2011.

Abouali. M., M. K. Eghbal and S. Jafari. 2008. Effect of short and long term sugarcane cultivation on chemical properties of soils in the Khuzestan Province, Iran. National Conference on Sustainable Agricultural Management for Iran. December, 2008. *(Abstract)*

Hamzehpour, N., M. K. Eghbal and M. J. Malakouti. 2008. New Methods for Integrated Soil Fertility Management for Sustainable Development. National Conference on Sustainable Agricultural Management for Iran. December, 2008. *(Abstract)*

Karimi Dehkordi, R., A. Jalalian and M. K. Eghbal. 2007. Role of Geologic formations on landslides in Doab Samsami Watershed Area, Charmehal Bakhtiari Province. Proceedings of the Forth National Conference of Watershed Management. Tehran, Iran. February, 2007. *(Abstract)*

Shekhabadi, M., H. Khademi, M. K. Eghbal, E. G. Gregorich and P. St-Georges. 2006. Identification of Soil Quality Indicators in Rangeland Soils by Factor Analysis. Book of Abstracts of Soil Protection for Natural Resources Protection, an international and interdisciplinary workshop. Monte Verita, Ascona Switzerland, October, 2006. *(Abstract)*

Shekhabadi, M., H. Khademi, M. K. Eghbal and F. Nourbakhsh. 2005. Impact of Overgrazing and Climate on Selected Biological Soil Quality Attributes in Central Zagros, Iran. International Conference on Human Impacts on Soil Quality Attributes in Arid and Semi-Arid Regions. Isfahan, Iran, September, 2005. *(Abstract)*

Jafarzadeh, S., M. K. Eghbal and A. Jalalian. 2005. Biological and mechanical stabilization of sand dunes using super-absorbent polymers and clay mulch in Ardestan area (Isfahan). International Conference on Human Impacts on Soil Quality Attributes in Arid and Semi-Arid Regions. Isfahan, Iran, September, 2005. *(Abstract)*

Farpour, M. H., H. Khademi and M. K. Eghbal. 2005. Genesis of selected gypsiferous soils in southeastern Iran. International Conference on Human Impacts on Soil Quality Attributes in Arid and Semi-Arid Regions. Isfahan, Iran, September, 2005. *(Abstract)*

Toomanian, N., A. Jalalian, H. Khademi and M. K. Eghbal. 2005. Evolution and Degradation of Segzi Playa in Zayandeh-rud Valley, central Iran. International Conference on Human Impacts on Soil Quality Attributes in Arid and Semi-Arid Regions. Isfahan, Iran, September, 2005. *(Abstract)*

Farpour, M.H., M.K. Eghbal. and H. Khademi. 2004. Factors affecting gypsum micromorphology on different geomorphic positions in central Iran. Extended Abstracts of 12th International Meeting on Soil Micromorphology. Adana. Turkey, September, 2004. *(Abstract)*

Torabi Golesefidi, H., M.K. Eghbal, and J. Givi. 2003. Morphology and micromorphology of paddy soils on different landforms in Gilan province. Abstracts of the 8th Iranian Soil Science. Rasht. Iran, September, 2003. *(Abstract)*

Torabi Golesefidi, H., M.K. Eghbal, and J. Givi. 2003. Physico-chemical, redox and mineralogical properties of wetland soils in eastern Gilan province. Abstracts of the 8th Iranian Soil Science. Rasht. Iran, September, 2003. *(Abstract)*

Torabi Golesefidi, H., M.K. Eghbal, and J. Givi. 2003. Qualitative and quantitative land suitability evaluation for rice cultivation in eastern Gilan province. Abstracts of the 8th Iranian Soil Science. Rasht. Iran, September, 2003. *(Abstract)*

Ramezani, H., A. Jalalian, M.K. Eghbal, and S. Mahmoodi. 2003. Micromorphological investigation of soils on a chronosequence in Shahr-e-Kord area. Abstracts of the 8th Iranian Soil Science. Rasht. Iran, September, 2003. *(Abstract)*

Salehi, M.H., H. Khademi, and M.K. Eghbal. 2003. Capability of detailed soil map to describe variability of soil surface properties in Farokhshahr area, Shahr-e-Kord. Abstracts of the 8th Iranian Soil Science. Rasht. Iran, September, 2003. *(Abstract)*

Akef, M., S. Mahmoodi, M.K. Eghbal and F. Sarmadian. 2003. Variability of physico-chemical and micromorphological properties of forest soils converted to paddies in Foomanat area, Gilan province. Abstracts of the 8th Iranian Soil Science. Rasht. Iran, September, 2003. *(Abstract)*

- Farpoor, M.H., H. Khademi, and M.K. Eghbal. 2003. Origin of gypsum in soils as revealed by isotopic composition in Rafsanjan Area. Abstracts of the 8th Iranian Soil Science. Rasht. Iran, September, 2003. *(Abstract)*
- Azarabin, M., A. Jalalian and M.K. Eghbal. 2003. Effect of land use and management on soil properties in Koohrang area, Chaharmahal & Bakhtiari Province. Abstracts of the 8th Iranian Soil Science. Rasht. Iran, September, 2003. *(Abstract)*
- Dehghanian, S., M.K. Eghbal, and H. Khademi. 2003. Effect of soil physical and chemical properties on surface Crust development and its influence on soil water erosion. Abstracts of the 8th Iranian Soil Science. Rasht. Iran, September, 2003. *(Abstract)*
- Ayoubi, Sh., M. H. Gerzabek, G. Haberhauer, A. Jalalian and M. K. Eghbal. 2002. Stable carbon isotope in Quaternary soil carbonates as indicators of ecological changes in Isfahan (Iran). Proceedings of the 8th International Conference on Understanding Future Dryland Environmental Changes from Past Dynamics. August 25 – 31, 2002. Yazd, Iran. *(Abstract)*
- Ayoubi, Sh., A. Jalalian and M. K. Eghbal. 2002. Role of pedogenesis in distribution of magnetic susceptibility in two Aridisols in Isfahan, central Iran. Book of Abstracts of the Conference on Sustainable Use and Management of Soils in Arid and Semiarid Region. September 2002. Cartagena, Spain. *(Abstract)*
- Ayoubi, Sh., M. Tabaei, A. Jalalian and M. K. Eghbal. 2002. Palynological investigations of recent sediments of eastern Isfahan, central Iran. Book of Abstracts of the 6th European Paleobotany – Palynology Conference. August 29 – September 2, 2002. Athenes, Greece. *(Abstract)*
- Salehi M. H., H. Khademi and M. K. Eghbal. 2002. Genesis of clay minerals in soils from chaharmehal Bakhtiari Province, Iran. Book of Abstracts of the Conference on Sustainable Use and Management of Soils in Arid and Semiarid Region. September 2002. Cartagena, Spain. *(Abstract)*
- Eghbal, M. K., A. Ashtari. 2002. Opportunities and Threats for Private Institutions to Participate in Research and Development Projects in Desert Regions of Iran. Abstract Book of the 8th International Conference on Understanding Future Dryland Environmental Changes from Past Dynamics. August 25 – 31, 2002. Yazd, Iran. *(Abstract)*
- Farpoor, M. H., H. R. Krouse, H. Khademi and M. K. Eghbal. 2002. Stable isotope geochemistry of gypsiferous Aridisols in central Iran. Book of Conference Abstracts of the 4th International Symposium on Ecosystem Behaviour. August 17-21, 2002. The Univ. of Reading, UK. *(Abstract)*
- Eghbal M. K. and A. Ashtari. 2001. Origin of sand dunes in Ardestan playa, Iran. 3rd International Conference on Land Degradation, Rio de Janeiro, Brazil, September 17-21, 2001. *(Abstract)*
- Alkaabi, O., M. K. Eghbal and M. Bassiri. 2001. Vegetation and soil indices for determining desertification in central Iran. 3rd International Conference on Land Degradation, Rio de Janeiro, Brazil, September 17-21, 2001. *(Abstract)*
- Salehi M. H., M. K. Eghbal, and H. Khademi. 2001. Comparison of spatial variability in soil map units in two different scales in Farokhshar area, Chehar Mehal Bakhtiari Province. Abstracts of the 7th Iranian Congress of Soil Science. Shahr-e-kord. Iran, August 26-29, 2001. *(Abstract)*
- Ayoubi S., A. Jalalian and M. K. Eghbal. 2001. Morphological, physical and chemical properties of paleosols as indicators of change in climate, sedimentation and soil forming processes in Isfahan area. Abstracts of the 7th Iranian Congress of Soil Science. Shahr-e-kord. Iran, August 26-29, 2001. *(Abstract)*
- Ashtari A., M. K. Eghbal and S. J. Khajeddin. 2001. Mineralogy of sand dunes and alluvial sediments in Ardestan area, Iran. Abstracts of the 7th Iranian Congress of Soil Science. Shahr-e-kord. Iran, August 26-29, 2001. *(Abstract)*
- Farpoor M. H., M. K. Eghbal and H. Khademi. 2001. Genesis and Classification of gypsiferous soils on different landforms in Rafsanjan area, Iran. Abstracts of the 7th Iranian Congress of Soil Science. Shahr-e-kord. Iran, August 26-29, 2001. *(Abstract)*
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- Morovvati A., A. Jalalian, M. K. Eghbal and M. R. Ekhtesasi. 2001. Wind erodibility of surface soils in Roodasht area of Isfahan. Abstracts of the 7th Iranian Congress of Soil Science. Shahr-e-kord. Iran, August 26-29, 2001. *(Abstract)*

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- Hosseinfard J., M. K. Eghbal, A. Jalalian and A. Monshi. 1999. Quantitative clay mineral analysis by XRD and ratio of slopes method. Abstracts of the 6th Iranian Congress of Soil Science. Mashhad. Iran, August 28-31, 1999. *(Abstract)*
- Shirani H. and M. K. Eghbal. 1999. Spatial variability of morphological and chemical properties in soil mapping units, Zarrinshahr, Iran. Abstracts of the 6th Iranian Congress of Soil Science. Mashhad. Iran, August 28-31, 1999. *(Abstract)*
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- Yahyaabadi M. and M. K. Eghbal. 1999. Micromorphological study of organic matter decomposition in soils. Abstracts of the 6th Iranian Congress of Soil Science. Mashhad. Iran, August 28-31, 1999. *(Abstract)*
- Eghbal M. K. and M. H. Farpour. 1996. Some aspects of land degradation in the central Zagros region, Iran. Abstracts of International Conference on Land Degradation. Adana. Turkey, June 10-14, 1996. *(Abstract)*
- Forougifar H., M. K. Eghbal and A. Jalalian. 1996. Factors influencing salt accumulation in soils around Gavkhooni playa. Abstracts of the 5th Iranian Congress of Soil Science. Karaj, Iran. *(Abstract)*
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