

# Abolfazl Irani Rahaghi

Postdoctoral researcher (PhD),  
Remote sensing group at Eawag & TIRLab at University of Zurich  
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## Education

- 2013-2018 **PhD** in Civil and Environmental Engineering  
Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, CH  
• PhD thesis: <https://doi.org/10.5075/epfl-thesis-8650>
- 2007-2009 **MSc** in Mechanical Engineering, Fluid mechanics  
Sharif University of Technology (SUT), Tehran, IR → *With distinction: Ranked 1<sup>st</sup>*
- 2003-2007 **BSc** in Mechanical Engineering  
Sharif University of Technology (SUT), Tehran, IR → *With distinction: Ranked 3<sup>rd</sup>*

## Employment

- 2023-now **Post-doctoral fellow, Remote sensing group** (Dr. D. Odermatt; Eawag, Dübendorf, CH ) & **TIRLab** (University of Zurich, Zurich, CH)  
• *Thermal remote sensing of aquatic systems in support of Swiss lakes temperature monitoring and modeling activities*
- 2021-2023 **Post-doctoral fellow / Scientist, Remote sensing group** (Dr. D. Odermatt ) & **Aquatic physics group** (Prof. D. Bouffard), Eawag, Dübendorf, CH  
• *Integration remotely sensed products, in situ measurements, and hydrodynamic models (AlpLakes project)*
- 2020-2021 **Post-doctoral fellow, Remote sensing group** (Dr. D. Odermatt ), Eawag, Dübendorf, CH  
• *High-frequency hyperspectral and biogeophysical time series data analysis*  
• *Primary production monitoring in Swiss lakes using Sentinel-3*
- 2018-2019 **Post-doctoral fellow, Ecological engineering laboratory** (Prof. D.A. Barry & Prof. U. Lemmin), EPFL, Lausanne, CH  
• *Assessment of the climate change impact on the lake temperature warming implementing machine learning technique*
- 2013-2018 **Research assistant, Ecological engineering laboratory** (Prof. D.A. Barry & Prof. U. Lemmin), EPFL, Lausanne, CH  
• *Developing a novel image stitching workflow for mapping high-resolution aerial thermal images over water*  
• *Being intensely involved in developing/testing/releasing of various hardware/software for an autonomous multi-platform measurement system for limnological purposes*  
• *Investigating the air-water energy exchange at different spatial and temporal scales using in situ, aerial, and satellite data, as well as 3D numerical simulation results*
- 2011-2013 **Research & Development engineer**, Research Center of Intelligent Signal Processing (RCISP; now a sub-division of **RCDAT**), Tehran, IR  
• *Conceptual design and thermo-geometrical optimization of a micro thermophotovoltaic power generator*

## Teaching experience

- 2023-now **Biogeochemical Modelling of Sediments, Lakes, and Oceans** (numerical modeling part). **Co-instructor**. MSc level. ETHZ, CH
- 2023-2024 **Spectroscopy of the Earth System** (Aquatic optics part). MSc level. **Co-instructor**. UZH, CH
- 2021-2022 **Spectroscopy of the Earth System** (Aquatic optics part). MSc level. Teaching assistance (TA). UZH, CH
- 2014-2018 **Sciences du sol**. BSc level. TA & occasionally **co-instructor**. EPFL, CH
- 2016-2018 **Introduction to environmental engineering**. BSc level. TA. EPFL, CH
- 2012 **Fluid mechanics-I**. BSc level. **Instructor**. SUT, IR
- 2011 **Thermodynamics laboratory**. BSc level. **Instructor**. SUT, IR
- 2009-2010 **Computational fluid dynamics**. BSc level. TA. SUT, IR
- 2009 **Heat Transfer-I**. BSc level. TA. SUT, IR
- 2008 **Fluid mechanics-I**. BSc level. TA. SUT, IR

## Supervision & Co-supervision of students

- [7] Fiona Pühringer. 2025. *Assessment and quantification of adjacency effect on optical Remote Sensing of inland waters*. MSc project. Eawag, CH. Co-supervised with Dr. D. Odermatt
- [6] Yongqing Yang & Laura Meyer. Numerical modeling of seasonal variation of temperature and turbidity in a pit lake. 2025. Term project in Biogeochemical Modelling of Sediments, Lakes, and Oceans. ETHZ, CH.
- [5] Claude Widmer, Oliviero Bullani, & Damian Durrer. *Skin effect modeling in lakes*. 2023. Term project in Remote Sensing of Water Systems. UZH, CH.
- [4] Remika Gupana. *Remote Sensing of Sun-induced Chlorophyll-a Fluorescence in Optically Complex Waters*. 2021-2023. PhD project. Eawag, CH. Supervisors: Dr. D. Odermatt & Prof. Alexander Damm
- [3] Xavier Buchwalder & Cloé Keller. *Remote sensing (IR and RGB) and geospatial data analysis of slope effect on the landslide*. 2018. Design project (in French). EPFL, CH. Awarded 1<sup>st</sup> prize. Co-supervisors: Prof. B. Merminod (EPFL) & J. Traveletti (CSD Ingénieurs)
- [2] Marine Clélia Froidevaux. *Analysis of AVHRR satellite data in Lake Geneva*. 2015. Semester project. EPFL, CH. Co-supervisor: Prof. D.A. Barry
- [1] Stefano Albertani & Nicolas Savioz. *Risk assessment of using hydrogen-based technologies for transport applications*. Design project (in French). 2014. EPFL, CH. Co-supervisor: C. Mazri (INERIS)

## Other work-related experience

### International collaboration and involvement

- 2024-2025 *Lémanscope* citizen science project → Collecting Secchi depth data by +200 participants (communications in French)
- 2024-2025 *RadCor* Science and Application Team → Correction for adjacency effects in EO data
- 2020-2022 *PACE* Science and Application Team → NASA's latest mission for Plankton, Aerosol, Cloud, ocean Ecosystem monitoring
- 2013-2015 *Léman-Baikal Trans-Eurasian Flight* → Conducting several airborne and in situ field campaigns in Lake Geneva and Lake Baikal

### PhD and MSc thesis committees

- 2025 PhD thesis committee of Anne Leroquais. Eawag & University of Lausanne (CH). Supervised by Prof. Damien Bouffard. Thesis title: *Dynamics of horizontal structures in lakes*
- 2023 MSc thesis committee of Renaud Nasch. University of Lausanne (CH). Supervised by Prof. Nathalie Chèvre & Prof. Damien Bouffard. Thesis title: *Modeling of Dissolved Micropollutants Plume in Large Lake from Wastewater Treatment Plant Outlet*

### Professional and Editorial services

- 2024-now Reviewer Editor of *Frontiers in Remote Sensing* journal
- 2024-now A board member of *Eawag Postdoctoral Scientists Association (EPSA)*
- 2022 Chairing a session at the SIL congress: "*The next 100 years of inland water sensing – combining remote sensing, in situ data and modelling*"; co-chaired with Prof. Tiit Kutser (University of Tartu, Estonia)
- 2017-2025 Reviewer of international journals: *Remote Sensing of Environment*, *Advances in Water Resources*, *Journal of Great Lakes Research*, *Remote Sensing*, *Journal of Hydrology*, *Aquatic Sciences*, *Water Research*, *Information Processing in Agriculture*

### Grants writing and assistantship

- 2025 Writing a proposal together with Dr. D. Odermatt in response to ESA's EO Innovation call. *High-resolution Lake surface water Temperature and heat EXchange monitoring from space (LakeTEX)*. Under review (200,000 EUR)
- 2021 Scientific assistance in writing and proofreading of a SNF proposal. *Lake3P: Monitoring Lake Primary Production using the PACE satellite*. PI: Dr. D. Odermatt (granted for one PhD student and one postdoc)
- 2018 Scientific assistance in writing and proofreading of a SNF proposal. *Variability of mesoscale surface energy flux in a large lake*. PI: Prof. D.A. Barry (granted for two PhD students and one postdoc)

## Miscellaneous

### Personal information

- Iranian With Swiss Permit C (l'autorisation d'établissement); Born in 1985; Married
- Hobbies: Football; Hiking; Standup paddleboarding
- Swiss car driver's license (Categories A, B & F)
- Swiss boat driver's license (Category A)
- Hobbies: Football; Hiking; Standup paddleboarding

### Technical and language skills

- Programming → Python, Matlab, Fortran, limited experience with R and C++
- Numerical modeling → MITgcm, Delft-3D Flow, SIMSTRAT, Hydrolight
- Remote sensing & GIS → SNAP, QGIS
- Project management tools → Trello (for agility), Git (for version control)
- Languages → Persian (mother tongue), English (fluent; C2), French (advanced; B2/C1), German (intermediate; A2/B1), Arabic (Intermediate; A2/B1)

## Peer-reviewed publications

### Under review or close-to-submission:

- [3] **Rahaghi, A.I.**, K. Naegeli, and D. Odermatt. Improving Landsat Surface Water Temperature Retrievals through Enhanced Detection of Optically Thin Clouds: A Machine Learning-Based Approach. In preparation for submission to *Remote Sensing of Environment*.
- [2] **Rahaghi, A.I.**, C. Minaudo, A. Damm, and D. Odermatt. Optical closure and uncertainty assessment of aquatic reflectance using an autonomous hyperspectral profiler. In preparation for resubmission to *Optics Express*.
- [1] Khatun, S., R. Grilli, **A.I. Rahaghi**, J.S. Berg, D. Jézéquel, D. Bouffard, C.J. Schubert, J. Chappellaz, and M.-E. Perga. Tracing the origins of metalimnetic methane in a stratified temperate lake: Insights from high-resolution mapping and 3D hydrodynamic modelling. Under review in *Limnology & Oceanography Letters*.

### Published:

- [14] Brandi, A., **A.I. Rahaghi**, A. Zonato, and G. Manoli. Urbanization effects on lake-land circulations in complex terrain. 2025. *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences*. 383, 20240576. <https://doi.org/10.1098/rsta.2024.0576>
- [13] Amadori, M., **A.I. Rahaghi**, D. Bouffard, and M. Toffolon. Using automatic calibration to improve the physics behind complex numerical models: An example from a 3D lake model using Delft3d (v6.02.10) and DYNO-PODS (v1.0). 2025. *Geoscientific Model Development*. 18, 3473-3486. <https://doi.org/10.5194/gmd-2024-118>
- [12] Gupana, R., D. Odermatt, **A.I. Rahaghi**, C. Minaudo, M. Werther, C. Giardino, and A. Damm. Remote sensing of sun-induced fluorescence in a deep lake: Disentangling quenching mechanisms improves relationship with chlorophyll-a concentration estimates. 2025. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*. 18, 4410-4426. <https://doi.org/10.1109/JSTARS.2025.3528911>
- [11] **Rahaghi, A.I.**, D. Odermatt, O. Anneville, et al. Combined Earth observations reveal the sequence of conditions leading to a large algal bloom in Lake Geneva. *Communications Earth & Environment*. 5, 229. <https://doi.org/10.1038/s43247-024-01351-5>
- [10] Lehmann, M., D. Gurlin, N. Pahlevan, et al., 2023. GLORIA - A globally representative hyperspectral in situ dataset for optical sensing of water quality. *Scientific Data*. 10, 100. <https://doi.org/10.1038/s41597-023-01973-y>
- [9] Gupana, R., A. Damm, **A.I. Rahaghi**, C. Minaudo, and D. Odermatt. 2022. Non-photochemical quenching estimates from in situ spectroradiometer measurements: implications on remote sensing of sun-induced chlorophyll fluorescence in lakes. *Optics Express*. 30, 46762-46781. <https://doi.org/10.1364/OE.469402>
- [8] Minaudo, C., D. Odermatt, D. Bouffard, **A.I. Rahaghi**, S. Lavanchy, & A. Wüest. 2021. The imprint of primary production on high-frequency profiles of lake optical properties. *Environmental Science & Technology*. 55, 14234-14244. <https://doi.org/10.1021/acs.est.1c02585>
- [7] **Rahaghi, A.I.**, U. Lemmin, D. Sage, and D.A. Barry. 2019. Achieving high-resolution thermal imagery in low-contrast lake surface waters by aerial remote sensing and image registration. *Remote Sensing of Environment*. 221, 773-783. <https://doi.org/10.1016/j.rse.2018.12.018>

- [6] **Rahaghi, A.I.**, U. Lemmin, A. Cimadoribus, and D.A. Barry. 2019. The importance of systematic spatial variability in the surface heat flux of a large lake. *Water Resources Research*. 55, 10248-10267. <https://doi.org/10.1029/2019WR024954>
- [5] **Rahaghi, A.I.**, U. Lemmin, and D.A. Barry. 2019. Surface water temperature heterogeneity at sub-pixel satellite scales and its effect on the surface cooling estimates of a large lake: Airborne remote sensing results from Lake Geneva. *Journal of Geophysical Researches: Oceans*. 124, 635-651. <https://doi.org/10.1029/2018JC014451>
- [4] Barry, D.A., J.-L. Liardon, P. Paccaud, P. Klaus, N.S. Gujja Shaik, **A.I. Rahaghi**, L. Zulliger, J. Beguin, B. Geissmann, S. Tulyakov, A. Ivanov, H.K. Wynn, and U. Lemmin. 2019. A low-cost, autonomous mobile platform for limnological investigations, supported by high-resolution mesoscale airborne imagery. *PLoS ONE*. 14, e0210562. <https://doi.org/10.1371/journal.pone.0210562>
- [3] **Rahaghi, A.I.**, U. Lemmin, A. Cimadoribus, D. Bouffard, M. Riffler, S. Wunderle, and D.A. Barry. 2018. Improving surface heat flux estimation for a large lake through model optimization and two-point calibration: The case of Lake Geneva. *Limnology & Oceanography: Methods*. 16, 576-593. <https://doi.org/10.1002/lom3.10267>
- [2] Behroozinia, P., **A.I. Rahaghi**, and M. H. Saidi. 2012. One-dimensional numerical investigation of a cylindrical micro-combustor applying electrohydrodynamics effect. *International Journal of Mechanical, Industrial and Aerospace Sciences*. 6, No. 7. <http://doi.org/10.5281/zenodo.1328988>
- [1] **Rahaghi, A.I.**, M.S., Saidi, M.H., Saidi, and M.B., Shafii. 2010. Two-dimensional numerical investigation of a micro combustor. *Scientia Iranica*. 17, 433-442. [http://scientiairanica.sharif.edu/article\\_3366.html](http://scientiairanica.sharif.edu/article_3366.html)

#### Conference proceedings, talks, and posters

- [39] Rahaghi, A.I., K. Naegeli, and D. Odermatt. Multi-source monitoring of Alpine lakes thermal dynamics: In-situ data, remote sensing, and modeling. *ESA International Workshop on High-resolution Thermal EO*. Toulouse (FR). Nov 2025 (Talk)
- [38] **Rahaghi, A.I.**, K. Naegeli, and D. Odermatt. Advancing Alpine lake monitoring and modelling with high-resolution thermal remote sensing. *ESA Living Planet Symposium*. Vienna (AT). Jun 2025 (Poster)
- [37] Odermatt, D., **A.I. Rahaghi**, D. Bouffard, J. Runnalls, L. Haller, N. Pasche. How Earth observation, citizen science, automated sensors and models are bringing Lake Geneva to life. *ESA Living Planet Symposium*. Vienna (AT). Jun 2025 (Talk)
- [36] **Rahaghi, A.I.**, D. Odermatt, and K. Naegeli. Advancing Alpine lake monitoring and modelling through calibration, validation, and dissemination of high-resolution thermal remote sensing products. *EGU General Assembly Conference*. Vienna (AT). May 2025 (PICO Talk)
- [35] Bouffard, D., M. Amadori, M. Brescani, C. Giardino, D. Odermatt, **A.I. Rahaghi**, J. Runnalls, M. Toffolon, and M. Werther. ALPLAKES: Advancing lake research and management through open integration of remote sensing and hydrodynamic products. *EGU General Assembly Conference*. Vienna (AT). May 2025 (Poster)
- [34] **Rahaghi, A.I.**, and D. Odermatt. Calibration and validation of high-resolution surface water temperature remote sensing in Swiss Lakes. *TRISHNA Science Team meeting*. Online. January 2024 (Talk)
- [33] Bouffard, D., M. Amadori, M. Brescani, C. Giardino, D. Odermatt, **A.I. Rahaghi**, J. Runnalls, M. Toffolon, and M. Werther. ALPLAKES: Advancing Lake Research and Management through Integrative Remote Sensing and Hydrodynamic. *21<sup>st</sup> Swiss Geoscience Meeting*. Mendrisio (CH). November 2023 (Poster)
- [32] Khatun, S., J.S. Berg, D. Jézéquel, N. Escoffier, D. Bouffard, **A.I. Rahaghi**, C.J. Schubert, and M.-E. Perga. Identifying the origin and distribution pattern of metalimnetic methane dynamics in Lake Geneva. *21<sup>st</sup> Swiss Geoscience Meeting*. Mendrisio (CH). November 2023 (Talk)
- [31] **Rahaghi, A.I.**, K. Naegeli, D. Bouffard, and D. Odermatt. Cal/Val of high-resolution lake surface water temperature remote sensing in support of Swiss lakes temperature monitoring and modeling activities. *21<sup>st</sup> Swiss Geoscience Meeting*. Mendrisio (CH). November 2023 (Talk)
- [30] **Rahaghi, A.I.**, and M. Amadori. AlpLakes: Towards the symbiosis of Hydrodynamic Models and Satellites. *GEOAquaWatch webinar*. Online. October 2023 (Talk)
- [29] Naegeli, K., J.S. Adams, G. Bramati, A. Damm, **A.I. Rahaghi**, D. Odermatt, N. Rietze, G. Schaepman-Strub, M. Schaepman. Thermal InfraRed research across-scales, sensors and spheres: The TRISHNA T-SEC Project. *Swiss Remote Sensing Days*. St. Gallen (CH). September 2023 (Poster)

- [28] Gupana, R., D. Odermatt, **A.I. Rahaghi**, C. Minaudo, M. Werther, C. Giardino, and A. Damm. Disentangling the effect of quenching mechanisms on phytoplankton sun-induced chlorophyll fluorescence: Implications for the assessment of chlorophyll-a concentrations in lakes. *ESA FLEX Fluorescence Workshop*. Frascati (IT). September 2023 (Poster)
- [27] Werther, M., **A.I. Rahaghi**, C. Giardino, M. Bresciani, V. Brando, M. Amadori, J. Runnalls, and D. Odermatt. Validation of Sentinel-2 MSI Atmospheric Correction Products Over Perialpine Lakes Using Automated Radiometers and Field Campaign Data. *ESA Sentinel-2 Validation Team Meeting*. Frascati (IT). September 2023 (Talk)
- [26] Amadori, M., **A.I. Rahaghi**, J. Runnalls, M. Bresciani, C. Giardino, M. Toffolon, D. Odermatt, and D. Bouffard. AlpLakes: Towards a standardized integration of remote sensing and numerical modeling for alpine lakes. *GLEON 2023 All Hands' Meeting*. Ryn (PL). June 2023 (Talk)
- [25] **Rahaghi, A.I.**, M. Werther, C. Minaudo, M. Bresciani, M. Amadori, C. Giardino, A. Damm, V. Brando, and D. Odermatt. Automated hyperspectral radiometry in the perialpine region for validation of satellite water quality products. *Aquatic Science Meeting (ASLO)*. Palma de Mallorca (SP). June 2023 (Talk)
- [24] **Rahaghi, A.I.**, M. Amadori, J. Runnalls, D. Odermatt, M. Bresciani, C. Giardino, M. Toffolon, and D. Bouffard. AlpLakes: Integrated bio-geophysical monitoring, modeling and forecasting of (peri)alpine lakes. *Aquatic Science Meeting (ASLO)*. Palma de Mallorca (SP). June 2023 (Talk)
- [23] **Rahaghi, A.I.**, D. Bouffard, K. Naegeli, and D. Odermatt. Thermal remote sensing of Swiss inland waters: Instrumentation and preliminary results from pre-, sub-, and high-alpine lakes. *ESA International Workshop on High-resolution Thermal EO*. Frascati (IT). May 2023 (Poster)
- [22] **Rahaghi, A.I.**, and D. Odermatt. Thermal remote sensing of Swiss inland waters: Objectives, study sites, and preliminary results. *TRISHNA Science Team meeting*. Online. December 2022 (Talk)
- [21] **Rahaghi, A.I.**, D. Odermatt, R. Reiss, M. Amadori, O. Anneville, M. Bresciani, C. Giardino, M. Toffolon, and D. Bouffard. Unraveling a widespread algal bloom in a deep large lake: Challenges and opportunities of combining remote sensing, in situ data and numerical modeling. *36<sup>th</sup> Congress of the International Society of Limnology (SIL)*. Berlin (DE). August 2022 (Talk)
- [20] **Rahaghi, A.I.**, C. Minaudo, A. Damm, R. Gupana, and D. Odermatt. Uncertainty characterization and mitigation of inland water remote sensing reflectance using an autonomous profiler: The case of Lake Geneva. *ESA Living Planet Symposium*. Bonn (DE). May 2022 (Poster)
- [19] Amadori, M., **A.I. Rahaghi**, M. Bresciani, C. Giardino, M. Toffolon, D. Odermatt, and D. Bouffard. Operational modeling and forecasting of bio-physical properties in alpine lakes. *ESA Living Planet Symposium*. Bonn (DE). May 2022 (Poster)
- [18] Gupana, R., D. Odermatt, **A.I. Rahaghi**, C. Minaudo, and A. Damm. Quantum yield estimates from *in-situ* spectroradiometer measurements and its implications on remote sensing of sun-induced fluorescence in lakes. *ESA Living Planet Symposium*. Bonn (DE). May 2022 (Poster)
- [17] Gupana, R., D. Odermatt, **A.I. Rahaghi**, C. Minaudo, and A. Damm. Remote sensing of fluorescence in inland waters: improvements from using hyperspectral data. *SPIE Remote Sensing*. 1185706 (2021). Online event. September 2021 (Talk).  
<https://doi.org/10.1117/12.2599128>
- [16] **Rahaghi, A.I.**, C. Minaudo, A. Damm, and D. Odermatt. Optical closure of remote sensing reflectance using automated hyperspectral profiler data. *IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*. Brussels (BE). July 2021 (Talk).  
<http://doi.org/10.1109/IGARSS47720.2021.9554464>
- [15] **Rahaghi, A.I.**, C. Minaudo, A. Damm, and D. Odermatt. Can the bio-optical stratification in a large lake be estimated using temperature profiles and meteorological data? *18<sup>th</sup> Swiss Geoscience Meeting*. Zurich (CH). November 2020 (Talk)
- [14] **Rahaghi, A.I.**, C. Minaudo, A. Damm, and D. Odermatt. Hyperspectral retrieval of stratification in aquatic systems. *Eawag Symposium*. Dübendorf (CH). September 2020 (Talk)
- [13] **Rahaghi, A.I.**, Surface thermal patterns of Lake Geneva at different scales: From km to m resolutions. *Eawag Surface Waters seminar*. Dübendorf (CH). April 2020 (Talk)
- [12] **Rahaghi, A.I.**, U. Lemmin, D. Sage, and D.A. Barry. A mobile measurement platform and an image processing procedure for high-resolution aerial thermal imagery of lake surface water temperatures. *International Association for Great Lakes Research & European Large Lakes Symposium (ELLS-IAGLR)*. Evian (FR). September 2018 (Poster)
- [11] **Rahaghi, A.I.**, U. Lemmin, and D.A. Barry. Effect of meso-scale surface water temperature heterogeneity on surface cooling estimates of a large lake: Airborne remote sensing results from Lake Geneva. *Physical Processes in Natural Water workshop (PPNW)*. Solothurn (CH). August 2018 (Poster)

- [10] **Rahaghi, A.I.**, U. Lemmin, D. Bouffard, M. Riffler, S. Wunderle, and D.A. Barry. Small-scale and mesoscale lake surface water temperature structure: Thermography and in situ measurements from Lake Geneva, Switzerland. *EGU General Assembly Conference*. Vienna (AT). April 2017 (Talk)
- [9] **Rahaghi, A.I.**, U. Lemmin, D. Bouffard, M. Riffler, S. Wunderle, and D.A. Barry. Seasonal spatial patterns of surface water temperature, surface heat fluxes and meteorological forcing over Lake Geneva. *AGU Fall Meeting*. San Fransisco (USA). December 2015 (Poster)
- [8] **Rahaghi, A.I.**, U. Lemmin, M. Riffler, S. Wunderle, and D.A. Barry. A Multiscale Surface water temperature data acquisition platform: Tests on Lake Geneva, Switzerland. *AGU Fall Meeting*. San Fransisco (USA). December 2015 (Poster)
- [7] **Rahaghi, A.I.**, U. Lemmin, D. Bouffard, M. Riffler, S. Wunderle, and D.A. Barry. Surface thermal patterns of Lake Geneva, Switzerland, from 2008 to 2012. *9<sup>th</sup> Symposium for European Freshwater Sciences*. Geneva (CH). July 2015 (Talk)
- [6] **Rahaghi, A.I.**, U. Lemmin, D. Bouffard, M. Riffler, S. Wunderle, and D.A. Barry. Surface heat flux variability of a large lake: Lake Geneva, Switzerland. *AGU Fall Meeting*. San Fransisco (USA). December 2014 (Poster)
- [5] **Rahaghi, A.I.**, M. Saediamiri, M.S. Saidi, M.H. Saidi, and M.B. Shafii. One-dimensional numerical investigation of a cylindrical micro combustor. *ASME Summer Heat Transfer Conference*. San Fransisco (USA). July 2009 (<https://doi.org/10.1115/HT2009-88415>)
- [4] Saidi, M.S., M.H. Saidi, B. Sajadi, P. Hanafizadeh, and **A.I. Rahaghi**. Ventilation system design for automobile assembly shops. *17<sup>th</sup> ISME International Conference on Mechanical Engineering*. Tehran (IR). May 2009 (Conference proceeding)
- [3] Saidi, M.S., M.H. Saidi, P. Hanafizadeh, B. Sajadi, and **A.I. Rahaghi**. Transient prediction of automobile body temperature distribution in the ED paint dryers: Analytical-numerical approach. *4<sup>th</sup> International Conference on Energy Research and Development (ICERD4)*. Kuwait City (KU). November 2008 (Conference proceeding)
- [2] Saidi, M.H., **A.I. Rahaghi**, and S.M. Mousavi. Retrofitting a steam power cycle by using water from the interstage feed water pump as reheat spray. *ASME Power 2008 Conference*. Orlando (USA). July 2008 (<https://doi.org/10.1115/POWER2008-60060>)
- [1] **Rahaghi, A.I.**, M.S., Saidi, M.H., Saidi, and M.B., Shafii. One-dimensional numerical study of a two-stage porous burner: A new approach in combustion modeling. *16<sup>th</sup> ISME International Conference on Mechanical Engineering*. Kerman (IR). May 2008 (Conference proceeding)

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