

Prakash: Publication list

(Name underlined when student is the first author)

BOOKS / THESIS

- 7 Stracher, G.B., **Prakash, A.**, and Rein, G., (Eds.), 2015, *Coal and peat fires: A global perspective, Volume 4, Peat – Geology, combustion, and case studies*, Elsevier, 174 p., Print Book ISBN 978-0444595102.
- 6 Stracher G.B, **Prakash, A.**, and Sokol E.V. (Eds.), 2014, *Coal and peat fires: A global perspective, Volume 3, Case studies*, Elsevier, 816 p., Print Book ISBN 978-0444595096 eBook ISBN 978-0444595119.
- 5 Stracher G.B, **Prakash, A.**, and Sokol E.V. (Eds.), 2013, *Coal and peat fires: A global perspective, Volume 2, Photographs and Multimedia Tour*, Elsevier, 564 p., ISBN 9780444594129.
- 4 Stracher G.B, **Prakash, A.**, and Sokol E.V. (Eds.), 2011, *Coal and peat fires: A global perspective, Volume 1, Coal- combustion and geology*, Elsevier, 335 p., ISBN 9780444528582.
- 3 Janssen, L.L.F., Huurneman, G.C., Bakker, W.H., Janssen, L.L.F., Reeves, C.V., Gorte, B.G.H., Pohl, C., Weir, M.J.C., Horn, J.A., **Prakash, A.**, and Woldai, T., 2004, *Principles of remote sensing: An introductory textbook*: translated into Korean. ITC Educational Textbook Series, 180 p. ISBN 89-95325631.
- 2 Rosema, A., Guan, H., van Genderen, J., Veld, H., Vekerdy, Z., ten Katen, A.M., **Prakash, A.**, and Sharif, M., 1999, *Manual of Coal Fire Detection and Monitoring*, NITG 99-221-C, ISBN 90-6743-640-2, 245 p.
- 1 **Prakash, A.**, 1996, *Remote sensing - GIS based geoenvironmental studies in Jharia Coalfield, India, with special reference to coalmine fires*. Ph.D. Thesis, Department of Earth Sciences, UOR, Roorkee, India, 194 p.

REFEREED JOURNAL PAPERS AND BOOK CHAPTERS

- 71 Falke, J.A., Clawson, C.M., Bailey, L., Rose, J., Prakash, A., and Martin, A., 2021, A remote sensing and occupancy estimation approach to quantify spawning habitat use by fall chum salmon (*Oncorhynchus keta*) along the Chandalar River, Alaska, *Canadian Journal of Fisheries and Aquatic Sciences* (in preparation).
- 70 Cristóbal, J., Graham, P., **Prakash, A.**, Buchhorn, M., Gens, R., Guldager, N., and Bertram, M., 2021, Airborne hyperspectral data acquisition and processing in the Arctic:

- a pilot study using the Hypsrex imaging spectrometer for wetland mapping, *Remote Sensing*, 13 (8), 1178. doi: <https://doi.org/10.3390/rs13061178>.
- 69 Balazs, M.S., **Prakash, A.**, and Wolken G., 2021, Quantifying changes in flood Deposits in an Alaskan fjord using multitemporal digital elevation models, *Sensors*, 21 (6), 1966, doi: <https://doi.org/10.3390/s21061966>.
- 68 Womble, J.N., Williams, P.J., McNabb, R.W., **Prakash, A.**, Gens, R., Sedinger, B., Acevedo, C., 2021, Harbor seals as sentinels of ice dynamics in tidewater glacier fjords, *Frontiers in Marine Sciences*, 8:634541. doi: <https://doi.org/10.3389/fmars.2021.634541>.
- 67 Cristóbal, J., Gens R., and **Prakash, A.**, 2021, Thermal remote sensing: Principles and applications in geohazards and resources monitoring. In *Remote sensing applications to characterization of geohazards and natural resources*, Springer (in print).
- 66 Cristóbal, J., **Prakash, A.**, Anderson, M. C., Kustas, W. P., Alfieri, J. G., and Gens, R., 2020, Surface energy flux estimation in two boreal settings in Alaska using a thermalbased remote sensing model. *Remote Sensing*, 12 (24), 4108-4131. doi: [10.3390/rs12244108](https://doi.org/10.3390/rs12244108).
- 65 Waigl, C.F., **Prakash, A.**, Stuefer, M., Verbyla, D., and Dennison, P., 2019, Fire detection and temperature retrieval using EO-1 Hyperion data over selected Alaskan boreal forest fires. *International Journal of Applied Earth Observation and Geoinformation*, 81, 72-84. doi: [10.1016/j.jag.2019.03.004](https://doi.org/10.1016/j.jag.2019.03.004).
- 64 Stracher, G.B., Wedincamp, J., Simmons, B., Shields, J.P., White, Y., Nolter, M.A., **Prakash, A.**, and Lindsley-Griffin, 2019, Chapter 2 - Coal-fire microarthropods from the Centralia, Pennsylvania and Healy, Alaska mine fires. In *Coal and peat fires: A global perspective, Volume 5, Case studies – Advances in field and laboratory research*, edited by Stracher., G., pp. 15-49. Print Book ISBN 978-0128498859. doi: [10.1016/B978-0-12-849885-9.00002-0](https://doi.org/10.1016/B978-0-12-849885-9.00002-0).
- 63 Payne, C., Panda, S., and **Prakash, A.**, 2018, Remote sensing of river erosion on the Colville River, North Slope Alaska. *Remote Sensing*, 10 (3), 397-416. doi: [10.3390/rs10030397](https://doi.org/10.3390/rs10030397).
- 62 Fraley, K.M., Falke, J.A., McPhee, M.V., and **Prakash, A.**, 2018, Rainbow trout movement behavior and habitat occupancy are influenced by sex and Pacific salmon presence in an Alaska river system, *Canadian Journal of Fisheries and Aquatic Sciences*, 75 (4), 525-537. doi: [10.1139/cjfas-2016-0459](https://doi.org/10.1139/cjfas-2016-0459).
- 61 Cristóbal, J., Jimenez, J.C., **Prakash, A.**, Mattar, C., Skokovic, D., and Sobrino, J.A., 2018, An improved single channel method to retrieved land surface temperature from Landsat-8 thermal band, *Remote Sensing*, 10(3), 431. doi: [10.3390/rs10030431](https://doi.org/10.3390/rs10030431).
- 60 Schoen, E., Rinella, D., Wipfli M., Floyd, A., Grunblatt, J., McCarthy, M., Meyer, M., **Prakash, A.**, Reimer, M., Stuefer, S., Toniolo, H., Trammel, J., Wells, B., and Witmer, F., 2017, Future of Pacific Salmon in the Face of Environmental Change: Lessons from

- One of the World's Remaining Productive Salmon Regions, *Fisheries*, 42(10), 538-553. [doi: 10.1080/03632415.2017.1374251](https://doi.org/10.1080/03632415.2017.1374251).
- 59 [Waijl, C.](#), Stuefer, M., **Prakash, A.**, and Ichoku, C., 2017, Detecting high and lowintensity fires in Alaska using VIIRS I-band data: an improved operational approach for high latitudes, *Remote Sensing of Environment*, 199, 389-400. [doi: 10.1016/j.rse.2017.07.003](https://doi.org/10.1016/j.rse.2017.07.003).
- 58 Cristóbal, J., **Prakash, A.**, Anderson, M. C., Kustas, W.P., Euskirchen, E.S., and Kane, D.L., 2017, Estimation of surface energy fluxes in the Arctic tundra using the thermalbased two-source energy balance model, *Hydrology and Earth System Science*, 21, 1339-1358. [doi:10.5194/hess-21-1339-2017](https://doi.org/10.5194/hess-21-1339-2017).
- 57 McNabb, R.W., Womble, J.N., **Prakash, A.**, Gens, R., and Haselwimmer, C., 2016, Quantification and analysis of icebergs in a tidewater glacier fjord using an object-based approach. *PLoS ONE* 11(11): e0164444. [doi:10.1371/journal.pone.0164444](https://doi.org/10.1371/journal.pone.0164444).
- 56 Cristóbal, J., Graham, P., Buchhorn, M., and **Prakash, A.**, 2016, A new integrated highlatitude thermal and hyperspectral laboratory for characterization of land surface processes in Alaska's Arctic and boreal regions, *Data*, 1 (2) 13, 1-9, [doi: 10.3390/data1020013](https://doi.org/10.3390/data1020013).
- 55 [Brown, D.R.N.](#), Jorgenson, M.T., Kielland, K., Verbyla, D.L., **Prakash, A.**, and Koch, J.C., 2016, Landscape effects of wildfire on permafrost distribution in interior Alaska derived from remote sensing, *Remote Sensing*, 8 (8), 654, [doi: 10.3390/rs8080654](https://doi.org/10.3390/rs8080654).
- 54 [Starkenbug, D.P.](#), Metzger, S., Fochesatto, G.J., Alfieri, J.G., Gens, R., **Prakash, A.**, Cristóbal, J., 2016, Assessment of de-spiking methods for turbulence data in micrometeorology, *Journal of Atmospheric and Oceanic Technology*, 33 (9), 2001-2013, [doi: 10.1175/JTECH-D-15-0154.1](https://doi.org/10.1175/JTECH-D-15-0154.1).
- 53 [Trochim, E.D.](#), **Prakash A.**, Kane, D.L, Romanovsky, V.E., 2015, Remote sensing of water tracks, *Earth and Space Science*, 3, 106–122, [doi: 10.1002/2015EA000112](https://doi.org/10.1002/2015EA000112).
- 52 [Trochim, E.D.](#), Jorgenson, T., **Prakash A.**, Kane, D.L, 2015, Geomorphic and biophysical factors affecting water tracks in northern Alaska, *Earth and Space Science*, 3, 123–141, [doi: 10.1002/2015EA000111](https://doi.org/10.1002/2015EA000111).
- 51 [Starkenbug, D.P.](#), Fochesatto, G.J., Cristóbal, J., **Prakash, A.**, Gens, R., Iwata, H., Nagano, H., Harazono, Y., Alfieri, J.G., and Kane, D.L., 2015, Temperature regimes and turbulent heat fluxes across a heterogeneous canopy in an Alaskan boreal forest, *Journal of Geophysical Research: Atmosphere*, 120 (4), 1348–1360. [doi: 10.1002/2014JD022338](https://doi.org/10.1002/2014JD022338).
- 50 Watson, I.M., and **Prakash, A.**, 2015, Chapter 2 - Satellite systems and interactions. In *Monitoring Volcanoes in the North Pacific: Observations from Space*, edited by Dean, K.J. and Dehn, J., Springer and Praxis, pp. 27-47, Print Book ISBN 978-3540241256, eBook ISBN 978-3540687504. [doi: 10.1007/978-3-540-68750-4_2](https://doi.org/10.1007/978-3-540-68750-4_2).

- 49 **Prakash, A.**, and Kuenzer, C., 2015, Chapter 22- Remote sensing based mapping and monitoring of coal fires. In *Remote Sensing Handbook, Volume 3, Water Resources, Disasters, and Urban Studies: Monitoring, Modeling, and Mapping*, edited by Thenkabail, P., CRC Press, pp. 561-577, ISBN 978-1482217919.
- 48 Floyd, A., **Prakash, A.**, Meyer, F., Gens, R., and Liljedahl, A., 2014, Applicability of Synthetic Aperture Radar to Investigate River Ice Breakup on the Kuparuk River, Northern Alaska, *Arctic*, 67 (4), 462–471. [doi:10.14430/arctic4426](https://doi.org/10.14430/arctic4426).
- 47 Pande, H., Garg, R.D., Sen, A.K., and **Prakash, A.**, 2014, Chapter 9 - Impact of mining activities on the landuse and landcover of the Jharia Coalfield, India. In *Coal and peat fires: A global perspective, Volume 3, Case studies*, edited by Stracher, G.B, Prakash, A. and Sokol E.V., pp. 263-279, Print Book ISBN 978-0444595096, eBook ISBN 9780444595119. [doi: 10.1016/b978-0-444-59509-6.00009-0](https://doi.org/10.1016/b978-0-444-59509-6.00009-0).
- 46 Waigl, C., **Prakash, A.**, Ferguson, A., and Stuefer, M., 2014, Chapter 24 – Coal-fire hazards in high-latitude coal basins: A case study from interior Alaska. In *Coal and peat fires: A global perspective, Volume 3, Case studies*, edited by Stracher, G.B, Prakash, A. and Sokol E.V., pp. 633-649, Print Book ISBN 978-0444595096, eBook ISBN 978-0444595119. [doi: 10.1016/B978-0-444-59509-6.00024-7](https://doi.org/10.1016/B978-0-444-59509-6.00024-7)
- 45 Oommen, T., Baise, L.G., Gens, R., **Prakash, A.**, and Gupta R.P., 2013, Documenting earthquake-induced liquefaction using satellite remote sensing image transformations, *Environmental and Engineering Geoscience*, 19 (4), 303–318. [doi: 10.2113/gseegeosci.19.4.303](https://doi.org/10.2113/gseegeosci.19.4.303).
- 44 Starkenbug, D.P., Fochesatto, G.J., **Prakash, A.**, Cristóbal, J., Gens, R., and Kane, D.L., 2013, The role of coherent flow structures in the turbulent fluxes of an Alaskan boreal forest, *Journal of Geophysical Research -Atmosphere*, 118 (15), 8140-8155. [doi: 10.1002/jgrd.50625](https://doi.org/10.1002/jgrd.50625).
- 43 **Prakash, A.**, Gens, R., Prasad, S., Raju, A., and Gupta, R.P., 2013, Chapter 10 – Coal Fires in the Jharia Coalfield, India. In *Coal and peat fires: A global perspective, Volume 2, Photographs and Multimedia Tour*, edited by Stracher, G.B, Prakash, A. and Sokol E.V., Elsevier, 564 p., ISBN 978-0444594129. [doi: 10.1016/B978-0-444-59412-9.00010-7](https://doi.org/10.1016/B978-0-444-59412-9.00010-7).
- 42 Haselwimmer, C., and **Prakash, A.**, 2013, Chapter 22 - Thermal infrared remote sensing of geothermal systems, pp. 453-474. In *Thermal Remote Sensing*, edited by Kuenzer, C. and Dech. S., Springer and Praxis, 554p., ISBN 978-9400766389. [doi: 10.1007/978-94007-6639-6_22](https://doi.org/10.1007/978-94007-6639-6_22).
- 41 Raju, A., Gupta, R.P., and **Prakash, A.**, 2013, Delineation of coalfield surface fires by thresholding Landsat TM-7 day-time image data, *Geocarto*, 28 (4), 343-363. [doi: 10.1080/10106049.2012.710651](https://doi.org/10.1080/10106049.2012.710651).

- 40 Ekstrand, A.L., Webley, P.W., Garay, M.J., Dehn, J., Prakash, A., Nelson, D.L., Dean, K.G., and Steensen T., 2013, A multi-sensor plume height analysis of the 2009 Redoubt eruption, *Journal of Volcanology and Geothermal Research*, 259, 170-184. [doi: 10.1016/j.jvolgeores.2012.09.008](https://doi.org/10.1016/j.jvolgeores.2012.09.008).
- 39 Haselwimmer, C., **Prakash, A.**, and Holdmann, G., 2013, Quantifying the heat flux and outflow rate of hot springs using airborne thermal imagery: case study from Pilgrim Hot Springs, Alaska, *Remote Sensing of Environment*, 136, 37-46. [doi: 10.1016/j.rse.2013.04.008](https://doi.org/10.1016/j.rse.2013.04.008).
- 38 Engle, M.A., Radke, L.F, Heffern E.L., O’Keefe, J., Hower, J.C., Smeltzer, C.D., Hower, J.M., Olea, R., Eatwell, R.J., Blake, D., Emsbo-Mattingly, S.D., Stout, S.A., Queen, G., Aggen, K.L., Kolker, A., **Prakash, A.**, Henke, K.R., Stracher, G.B., Schroeder, P.A., Román-Colón, Y., and ter Schure, A., 2012, Gas emissions, minerals, and tars associated with three coal fires, Powder River Basin, USA, *Science of Total Environment*, 420, 146-59. [doi: 10.1016/j.scitotenv.2012.01.037](https://doi.org/10.1016/j.scitotenv.2012.01.037).
- 37 Green, J., Kongoli, C., **Prakash, A.**, Sturm, M., Duguay, C., and Li, S., 2012, Quantifying the relationships between lake fraction, snow water equivalent and snow depth, and microwave brightness temperatures in arctic tundra landscapes, *Remote Sensing of Environment*, 127, 329-340. [doi: 10.1016/j.rse.2012.09.008](https://doi.org/10.1016/j.rse.2012.09.008).
- 36 Wirth, L., Rosenberger, A., **Prakash, A.**, Gens, R., Margraf, J., and Hamazaki, T., 2012, A remote sensing/GIS-based approach to identify, monitor, and model spawning habitat for fall chum salmon in a sub-arctic, glacially-fed river, *Transactions of the American Fisheries Society*, 141 (5), 1349-1363. [doi: 10.1080/00028487.2012.692348](https://doi.org/10.1080/00028487.2012.692348).
- 35 Panda, S.K., **Prakash, A.**, Jorgenson, M.T. and Solie, D.N., 2012, Near-surface permafrost distribution mapping using logistic regression and remote sensing in Interior Alaska, *GIScience and Remote Sensing*, 49 (3), 346-363. [doi: 10.2747/15481603.49.3.346](https://doi.org/10.2747/15481603.49.3.346)
- 34 Engle, M.A., Radke, L.F, Heffern E.L., O’Keefe, J., Smeltzer, C.D., Hower, J.C., Hower, J.M., **Prakash, A.**, Kolker, A., Eatwell, R.J., ter Schure, A., Queen, G., Aggen, K.L., Stracher, G.B., Henke, K.R., Olea, R., and Román-Colón, Y., 2012, Quantifying greenhouse gas emissions from coal fires using airborne and ground-based methods, *International Journal of Coal Geology*, 88 (2-3), 147-151. [doi: 10.1016/j.coal.2011.09.003](https://doi.org/10.1016/j.coal.2011.09.003).
- 33 Woll, C., **Prakash, A.**, and Sutton, T., 2011, A case-study of in-stream juvenile salmon habitat classification using decision-based fusion of multispectral aerial images, *Applied Remote Sensing Journal*, 2 (1), 37-46.
- 32 **Prakash, A.**, Schaefer, K., Witte, W.K., Collins, K., Gens R., and Goyette, M., 2011, Remote Sensing - GIS Based Investigation of a Boreal Forest Coal Fire. *International Journal of Coal Geology*, 86 (1), 79-86. [doi: 10.1016/j.coal.2010.12.001](https://doi.org/10.1016/j.coal.2010.12.001).

- 31 **Prakash, A.**, and Gens, R., 2011, Chapter 14 - Remote sensing of coal fires. In *Coal and peat fires: A global perspective, Volume 1, Coal - combustion and geology*, edited by Stracher, G.B, Prakash, A. and Sokol E.V., Elsevier, pp. 231-252, ISBN 9780444528582. [doi: 10.1016/B978-0-444-52858-2.00014-1](https://doi.org/10.1016/B978-0-444-52858-2.00014-1).
- 30 Oommen, T., Misra, D., **Prakash, A.**, Bandopadhyay S., Naidu, S., and Kelley, J.J., 2011, Multiple regressive pattern recognition technique: An adapted approach for improved georesource estimation. *Natural Resources Research*, 20 (1), 11-24. [doi: 10.1007/s11053-010-9132-y](https://doi.org/10.1007/s11053-010-9132-y).
- 29 Panda, S.K., **Prakash, A.**, Solie, D.N., Romanovsky, V.E. and Jorgenson, M.T., 2010, Remote sensing and field-based mapping of permafrost distribution along the Alaska Highway corridor, Interior Alaska. *Permafrost and Periglacial Processes*, 21: 271–281. [doi: 10.1002/ppp.686](https://doi.org/10.1002/ppp.686).
- 28 Yarker, M.B., PaiMazumder, D., Cahill, C.F., Dehn, J., **Prakash, A.**, Mölders, N., 2010. Theoretical investigations on potential impacts of high-latitude volcanic emissions of heat, aerosols and water vapor and their interactions on clouds and precipitation. *Open Atmospheric Science Journal*, (4), 24-44. [doi: 10.2174/1874282301004010024](https://doi.org/10.2174/1874282301004010024)
- 27 Wiltse, M., **Prakash, A.**, Burns, L., 2009, Image analysis of airborne geophysical data from the Salcha river – Pogo area, Alaska. *Canadian Journal of Remote Sensing*, 35 (S1), S56-S71. [doi: 10.5589/m09-020](https://doi.org/10.5589/m09-020).
- 26 Quattrochi, D.A., **Prakash, A.**, Eneva, M., Wright, R., Hall, D.K., Anderson, M., Kustas, W.P., Allen, R.G., Pagano, T., and Coolbaugh, M.F., 2009, Thermal remote sensing: Theory, sensors, and applications. In *Manual of Remote Sensing 1.1: Earth Observing Platforms & Sensors*, Ed. M. Jackson, ASPRS, 550 p. ISBN 1-57083-086-X.
- 25 Stracher, G.B., Finkelman R.B., Hower, J.C., Pone, D.N., **Prakash, A.**, Blake, D.R., Schroeder, P.A., Emsbo-Mattingly S.D., and O'Keefe, J.M.K., 2009, Natural and anthropogenic coal fires. In *Encyclopedia of Earth*, topic editor Dogan, A.U, Encyclopedia editor Cleveland, C.J., National Council for Science and the Environment.
- 24 Kolker, A., Engle, M., Stracher, G., Hower, J.C., **Prakash, A.**, Radke, L.F, ter Schure, A., and Heffern, E.L., 2009, Emissions from coal fires and their impact on the environment. *US Geological Survey*, Fact Sheet 2009–3084, 4p. <http://pubs.usgs.gov/fs/2009/3084/>
- 23 Ledley, T.S., **Prakash, A.**, Manduca, C., Fox, S., and DAWG members, 2008, Recommendations for making geoscience data accessible and usable in education. *EOS*, 89 (32), 291. [doi: 10.1029/2008EO2003](https://doi.org/10.1029/2008EO2003).
- 22 Smikrud, K., **Prakash, A.**, and Nichols, J., 2008, Decision based fusion for improved fluvial landscape classification using digital aerial photographs and forward looking infrared images. *Photogrammetric Engineering and Remote Sensing*, 74 (7), 903-911. [doi: 10.14358/PERS.74.7.903](https://doi.org/10.14358/PERS.74.7.903).

- 21 Oommen, T., Misra, D., Twarakavi, N.K., **Prakash, A.**, Sahoo B.C., and Bandopadhyay S., 2008, An objective analysis of support vector machine based classification for remote sensing. *Mathematical Geosciences*, 40 (4), 409-424. [doi: 10.1007/s11004-008-9156-6](https://doi.org/10.1007/s11004-008-9156-6).
- 20 Connor, C., and **Prakash, A.**, 2008, Experiential discoveries in geoscience education: The EDGE Program in Alaska. *Journal of Geoscience Education*, 56 (2), 179-186. [doi: 10.5408/1089-9995-56.2.179](https://doi.org/10.5408/1089-9995-56.2.179).
- 19 Oommen, T., **Prakash, A.**, Misra, D., Naidu, S., Kelley, J.J., and Bandopadhyay S., 2008, GIS based marine platinum exploration, Goodnews bay region, southwest Alaska, *Marine Georesources and Geotechnology*, 26 (1), 1-18. [doi: 10.1080/10641190701706270](https://doi.org/10.1080/10641190701706270).
- 18 Berthelote, A.R., **Prakash, A.**, and Dehn, J., 2008, An empirical function to estimate the depths of linear hot sources: Applied to the Kuhio Lava tube, Hawaii. *Bulletin of Volcanology*, 70 (7), 813-824. [doi: 10.1007/s00445-007-0171-0](https://doi.org/10.1007/s00445-007-0171-0).
- 17 **Prakash, A.**, and Berthelote A.R., 2007, Subsurface coal mine fires: Laboratory simulation, numerical modeling and depth estimation. *Geological Society of America: Reviews in Engineering Geology*, 18, 211-218. [doi: 10.1130/2007.4118\(13\)REG2007](https://doi.org/10.1130/2007.4118(13)REG2007).
- 16 **Prakash, A.**, 2006, Introducing geoinformatics for Earth system science education. *Journal of Geoscience Education*, 54 (5), 555-560. [doi: 10.5408/1089-9995-54.5.555](https://doi.org/10.5408/1089-9995-54.5.555).
- 15 Smikrud, K. and **Prakash, A.**, 2006, Detecting and monitoring large woody debris in a part of the Unuk river, Alaska, using digital aerial photography. *GIScience and Remote Sensing*, 43 (2), 142-154.
- 14 Stracher, G.B., **Prakash, A.**, Schroeder, P., McCormack, J., Zhang, X.M., and van Dijk, P., 2005, New mineral occurrences and mineralization processes: Wuda coal-fire gas vents of Inner Mongolia. *American Mineralogist*, 90 (11-12), 1729-1739. [doi: 10.2138/am.2005.1671](https://doi.org/10.2138/am.2005.1671).
- 13 Parodi, G.N., and **Prakash, A.**, 2004, Chapter 9 - Radiometric correction. In *Principles of remote sensing: an introductory textbook* (Third edition), edited by N. Kerle, ITC Educational Textbook Series. 250p., ISBN 90-61642272.
- 12 Zhang, J., Wagner, W., **Prakash, A.**, Mehl, H. and Voigt, S., 2004, Detecting coal fires using remote sensing techniques. *International Journal of Remote Sensing*, 25 (16), 3193 - 3220. [doi: 10.1080/01431160310001620812](https://doi.org/10.1080/01431160310001620812).
- 11 **Prakash, A.** and Vekerdy Z., 2004, Design and implementation of a dedicated prototype GIS for coal fire investigations in North China. *International Journal of Coal Geology*, 59, 107-119. [doi: 10.1016/j.coal.2003.12.009](https://doi.org/10.1016/j.coal.2003.12.009).
- 10 **Prakash, A.**, 2001, Chapter 8 - Radiometric aspects. In *Principles and Remote Sensing* (Second edition), edited by Janssen, L.L.F. and Huurneman, G.C., ITC Educational Textbook Series. 180 p. ISBN 90-61641993.

- 9 **Prakash, A.**, Fielding, E.J., Gens, R., Genderen, J.L. van and Evans, D.L., 2001, Data fusion for investigating land subsidence and coalfire hazards in a coal mining area. *International Journal of Remote Sensing*, 22 (6), 921-932. [doi: 10.1080/014311601300074441](https://doi.org/10.1080/014311601300074441).
- 8 **Prakash, A.**, Gens, R. and Vekerdy Z., 1999, Monitoring coal fires using multi-temporal night-time thermal images in a coalfield in North-west China. *International Journal of Remote Sensing*, 20 (14), 2883-2888. [doi: 10.1080/014311699211868](https://doi.org/10.1080/014311699211868).
- 7 **Prakash, A.** and Gupta, R.P., 1999, Surface fires in Jharia Coalfield, India - their distribution and estimation of area and temperature from TM data. *International Journal of Remote Sensing*, 20 (10), 1935-1946. [doi: 10.1080/014311699212281](https://doi.org/10.1080/014311699212281).
- 6 Gupta, R.P., and **Prakash, A.**, 1998, Reflection aureoles associated with thermal anomalies due to subsurface mine fires in the Jharia Coalfield, India. *International Journal of Remote Sensing*, 19 (14), 2619-2622. [doi: 10.1080/014311698214415](https://doi.org/10.1080/014311698214415)
- 5 **Prakash, A.** and Gupta, R.P., 1998, Land-use mapping and change detection in a coal mining area - a case study of the Jharia Coalfield, India. *International Journal of Remote Sensing*, 19 (3), 391-410. [doi: 10.1080/014311698216053](https://doi.org/10.1080/014311698216053).
- 4 **Prakash, A.**, Gupta, R.P. and Saraf, A.K., 1997, A Landsat TM based comparative study of surface and subsurface fires in the Jharia Coalfield, India. *International Journal of Remote Sensing*, 18 (11), 2463-2469. [doi: 10.1080/014311698214415](https://doi.org/10.1080/014311698214415).
- 3 **Prakash, A.**, Saraf, A.K., Gupta, R.P., Dutta, M. and Sundaram, R.M., 1995, Surface thermal anomalies associated with underground fires in Jharia Coal Mine, India. *International Journal of Remote Sensing*, 16 (12), 2105-2109. [doi: 10.1080/01431169508954544](https://doi.org/10.1080/01431169508954544).
- 2 **Prakash, A.**, Sastry, R.G.S., Gupta, R.P. and Saraf, A.K., 1995, Estimating the depth of buried hot feature from thermal IR remote sensing data, a conceptual approach. *International Journal of Remote Sensing*, 16 (13), 2503-2510. [doi: 10.1080/01431169508954572](https://doi.org/10.1080/01431169508954572). [Awarded the Second Khosala Prize in 1996.](#)
- 1 Saraf, A.K., **Prakash, A.**, Sengupta, S. and Gupta, R.P., 1995, Landsat TM data for estimating ground temperature and depth of subsurface coal fire in Jharia Coal Field, India. *International Journal of Remote Sensing*, 16 (12), 2111-2124. [doi: 10.1080/01431169508954545](https://doi.org/10.1080/01431169508954545). [Awarded the First Khosala Prize in 1996.](#)

REFEREED ONLINE PRODUCTS AND PUBLICATIONS *

- 4 **Prakash, A.**, Gens, R., and McClung, S., 2007, Polar Remote Sensing: A resource for undergraduate education. Rated as 'Outstanding' by NASA Science Mission Directorate

Education Product Review Panel (<https://anupma-prakash.github.io/polar-remotesensing/>).

- 3 McCaffrey, M., Meier, W., **Prakash, A.**, Rogan, B., and Youngman, B., 2007, Whither Arctic Sea Ice? Case Study Chapter in the Earth Exploration Toolbook. Passed NASA educational and DLESE community review (<http://serc.carleton.edu/eet/seaice/>). Part of the reviewed Climate Literacy & Energy Awareness Network (CLEAN) collection.
- 2 **Prakash, A.**, Gens, R., and Gupta, A., 2006, Treasure Hunt in Alaska. A website for grades 4-5 school children reviewed and approved by NASA Science Mission Directorate Education Product Review Panel (<https://anupma-prakash.github.io/treasurehunt-alaska/title.html>).
- 1 **Prakash, A.**, Nielsen, C., Gupta, A., and Gens, R., 2004, Alaska: A Bird's Eye View. A website for middle school children reviewed and approved by NASA Earth Science Enterprise Education Product Review Panel (<https://anupma-prakash.github.io/birds-eyeview/>).

*Each product is approved after a rigorous review by a 5-6 member panel consisting of scientists and educators.

FULL LENGTH PAPERS IN PROCEEDINGS / OTHER JOURNALS

- 20 Kokaly, R.F., Hoefen, T.M., Graham, G.E., Kelley, K.D., Johnson, M.R., Hubbard, B.E., Goldfarb, R., Buchhorn, M., and **Prakash, A.**, 2016, Mineral information at micron to kilometer scales: Laboratory, field, and remote sensing imaging spectrometer data from the Orange Hill porphyry copper deposit, Alaska, USA, *IEEE International Geoscience and Remote Sensing Symposium*, July 10-15, Beijing China.
- 19 Roon, D., Wipfli, M.S., Wurtz, T.L., and **Prakash, A.**, 2015, Distribution of Invasive European Bird Cherry (*Prunus padus*) in Riparian Forests Along Urban Alaskan Streams, *Forest Health Conditions in Alaska 2014*, U.S. Forest Service, Alaska Region: Publication R10-PR-36, pp. 40-43.
(Available at: http://www.fs.usda.gov/Internet/FSE_DOCUMENTS/stelprd3834154.pdf)
- 18 Miller, J.K., Haselwimmer, C.E., and **Prakash A.**, 2013, Investigating low-temperature hydrothermal alteration in drill cuttings from Pilgrim Hot Springs, Alaska using a suite of low-cost analytical techniques, *Geothermal Resources Council Transactions*, 37, 989998. Received the Best Resource Assessment Presentation Award.
- 17 Miller, J.K., **Prakash, A.**, Daanen, R., Haselwimmer, C., Whalen, M., Benoit, D., Cumming, W., Clark, A.C., Mager, M. and Holdmann, G., 2013, Geologic model of the geothermal anomaly at Pilgrim Hot Springs, Seward Peninsula, Alaska, *Thirty-Eighth Workshop on Geothermal Reservoir Engineering*, February 11-13, Stanford, California. SGP-TR-198, p. 1326-1334.

- 16 Chittambakkam, A., Daanen, R.P., **Prakash, A.**, Haselwimmer, C., and Holdmann, G., 2013, Development of a reservoir stimulation model at Pilgrim Hot Springs, Alaska using Tough2, *Thirty-Eighth Workshop on Geothermal Reservoir Engineering*, February 11-13, Stanford, California. SGP-TR-198, 13p.
- 15 Daanen, R.P., Chittambakkam, A., Haselwimmer, C., **Prakash, A.**, Mager, M., and Holdmann, G., 2012, Use of COMSOL multiphysics to develop a shallow preliminary conceptual model for geothermal exploration at Pilgrim Hot Springs, Alaska, *Geothermal Resource Council, 36th Annual Meeting*, Sep 30 - Oct 3, Reno, Nevada.
- 14 Haselwimmer, C., **Prakash, A.**, and Holdmann, G., 2011, Geothermal Exploration in Pilgrim, Alaska Using Airborne Thermal Infrared Remote Sensing. *Geothermal Resource Council, 35th Annual Meeting*, Oct 23-26, San Diego, California.
- 13 **Prakash, A.**, 2010, Coal fire research: Heading from remote sensing to remote measurement, *Second International Conference on Coal Fire Research*, May 19-21, Berlin, Germany. Session: Remote Sensing Sensors and Systems.
- 12 **Prakash, A.**, Gens, R., Kelley, J., Alexander, V., Johnson, L., Yanow, G., 2004, Spacebased observations in the International Polar Year: Educational opportunities to strengthen the STEM pipeline. *IEEE International Geoscience and Remote Sensing Symposium*, September 20-24, Anchorage, USA.
- 11 Venkateshwarlu, C., Gopal Rao, K., and **Prakash, A.**, 2004, Neural networks in land surface temperature mapping in urban areas from thermal infrared data. *IEEE International Geoscience and Remote Sensing Symposium*, Sept 20-24, Anchorage, USA.
- 10 Venkateshwarlu, C., Gopal Rao, K., and **Prakash, A.**, 2003, Artificial neural networks in the improvement of effective spatial resolution of thermal infrared data for improved

- landuse classification. *URBAN-2003: Second IEEE/ISPRS Joint Workshop on Remote Sensing and Data Fusion over Urban Areas*, 22-23 May 2003, Berlin, Germany.
- 9 Wagtendonk, A.J., and **Prakash, A.**, 2003, Knowledge sharing through the web: the use of multimedia in a European research project. In *GETS project- A European Research Network for the Application of Geomorphology and Environmental Impact Assessment to Transportation Systems*.
 - 8 Stracher, G.B., Taylor, T.P. and **Prakash, A.**, 2002, Coal Fires: A synopsis of their origin, remote sensing detection, and thermodynamics of sublimation, in Shannon, S., editor, Case histories of mine reclamation and regulation. *Environmental Technology for Mining*: Robertson GeoConsultants Inc., Reno, NV; Vancouver, B.C., p. 1-8.
 - 7 Das, K.D., Gopal Rao, K., **Prakash, A.**, 2001, Improvement of effective spatial resolution of thermal infrared data for urban landuse classification. *IEEE/ISPRS Joint Workshop on Remote Sensing and Data Fusion over Urban Areas*, 8-9 November 2001, Rome, Italy.
 - 6 **Prakash, A.**, 2000, Thermal remote sensing: Concepts, issues and applications. *International Archives of Photogrammetry and Remote Sensing*, XXXIII (B1), 239-243.
 - 5 **Prakash, A.**, Sharif, M. and Genderen J.L. van, 1999, Integrated application of geotechniques for coalfire studies in North China Coalfield. *Thematic conference and exhibition on Geomatics*, NCC, Tehran-Iran. March 1999, 6p.
 - 4 Vekerdy Z., Gens, R. and **Prakash, A.**, 1999, Use of optical and radar imagery to estimate and monitor the quantity of oil in storage tanks. *Twentififth Annual Conference and Exhibition of the Remote Sensing Society*, 8-10 September 1999, University of Wales at Cardiff and Swansea.
 - 3 **Prakash, A.**, 1999, The dynamics of coal mining and coal fires in the Jharia Coalfield, India: geoenvironmental and socioeconomic impacts. *Second International Symposium on Operationalization of Remote Sensing*, 16-20 August 1999, Enschede, The Netherlands (presentation).
 - 2 Vekerdy Z., Wang, F., Zhang, J.M. and **Prakash, A.**, 1999, Requirements for the integration of remote sensing and field data in a GIS for the management of fire fighting in coalfields *Second International Symposium on Operationalization of Remote Sensing*, 16-20 August 1999, Enschede, The Netherlands.
 - 1 **Prakash, A.**, 1995, A case study in the Jharia Coalfield based on remote sensing - GIS. *International course on 'Modern technologies for mineral resources assessment and management'*, I.G.C., UOR, Roorkee, 20 December, 1995 to 13 January, 1996, 31.131.8.

CONFERENCE ABSTRACTS (PRESENTATIONS / POSTERS)

About 200 conference abstracts: details available on request.

