

# Bibliography

Christer Oscar Kiselman

## 1. Theses

- 64-1. *Existens och approximation av holomorfa lösningar till randproblem i konvexa områden* [*Existence and approximation of holomorphic solutions to boundary problems in convex domains*]. Thesis for the Degree of *filosofie licentiat*, submitted to Stockholm University. [Approved on 1964 March 21. Part of the results were published in 65-1.]
- 66-1. *Studies in Analytic Functionals and Functions of Exponential Type*. Summary of Doctoral Dissertation, submitted to Stockholm University, 1966. [Approved on 1966 December 03. The thesis consists of a short summary and the publications 65-1, 65-2 and 67-1.]

## 2. Mathematics

### 2.1. Publications

- 65-1. Existence and approximation theorems for solutions of complex analogues of boundary problems. *Arkiv för matematik* **6** (1967), 193–207 (1965, 1966).
- 65-2. On unique supports of analytic functionals. *Arkiv för matematik* **6** (1967), 307–318 (1965, 1966).
- 67-1. On entire functions of exponential type and indicators of analytic functionals. *Acta Mathematica* **117** (1967), 1–35. (Submitted 1966-05-31.)
- 68-1. Functionals on the space of solutions to a differential equation with constant coefficients. The Fourier and Borel transformations. *Mathematica Scandinavica* **23** (1968), 27–53.
- 68-2. Existence of entire functions of one variable with prescribed indicator. *Arkiv för matematik* **7** (1969), 505–508 (1968).
- 68-3. Compacts d'unicité pour les fonctionnelles analytiques en une variable. *Comptes Rendus de l'Académie des Sciences (Paris), Série A*, **266** (1968), 661–663.
- 68-4. Supports des fonctionnelles sur un espace de solutions d'une équation aux dérivées partielles à coefficients constants. **In:** *Séminaire Pierre Lelong (Analyse) Année 1967–68*, pp. 118–126. Lecture Notes in Mathematics **71**. Springer-Verlag, 1968.
- 69-1. Prolongement des solutions d'une équation aux dérivées partielles à coefficients constants. *Bulletin de la Société mathématique de France* **97** (1969), 329–356.
- 70-1. Cegrell, U.; Kiselman C. O. Några anmärkningar om summabiliteter [Some remarks on summability methods]. *Nordisk Matematisk Tidskrift* **18** (1970), 127–136.
- 72-1. Gruman, Lawrence; Kiselman, Christer O. Le problème de Levi dans les espaces de Banach à base. *Comptes Rendus de l'Académie des Sciences (Paris), Série A*, **274** (1972), 1296–1299.
- 76-1. On the radius of convergence of an entire function in a normed space. *Annales Polonici Mathematici* **33** (1976), 39–55.
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- 77-2. Fonctions delta-convexes, delta-sousharmoniques et delta-plurisousharmoniques. **In:** *Séminaire Pierre Lelong (Analyse) Année 1975/76*, pp. 93–107. Lecture Notes in Mathematics **578**. Springer-Verlag, 1977.
- 77-3. Construction de fonctions entières à rayon de convergence donné. **In:** *Séminaire Pierre Lelong (Analyse) Année 1975/76*, pp. 246–253. Lecture Notes in Mathematics **578**. Springer-Verlag, 1977.
- 77-4. Supports des profonctionnelles analytiques. **In:** *Équations aux dérivées partielles en dimension infinie; Séminaire Paul Krée, 1975/76*, No. 9; 7 pages. Paris, 1977.
- 77-5. Att åskådliggöra komplexa avbildningar [How to visualize complex mappings]. *Elementa* **60** (1977), 175–180.
- 77-6. La transformation de Legendre partielle pour les fonctions plurisousharmoniques. **In:** *Colloque d'Analyse Harmonique et Complexe*, 5 pp. Marseille: Université Aix–Marseille I, 1977.
- 78-1. The partial Legendre transformation for plurisubharmonic functions. *Inventiones Mathematicae* **49** (1978), 137–148.
- 78-2. Sur la convexité linéelle. *Anais da Academia Brasileira de Ciências* **50**(4) (1978), 455–458.
- 79-1. Plurisubharmonic functions and plurisubharmonic topologies. **In:** J. A. Barroso (Ed.), *Advances in Holomorphy*, pp. 431–449. North-Holland Mathematics Studies **34**, 1979.
- 79-2. Densité des fonctions plurisousharmoniques. *Bulletin de la Société Mathématique de France* **107** (1979), 295–304.
- 80-1. The growth of restrictions of plurisubharmonic functions. **In:** A tribute to Åke Pleijel on his retiring, December 31, 1979, pp. 155–160. Uppsala: Uppsala University (1980), 219 pp.
- 81-1. How to recognize supports from the growth of functional transforms in real and complex analysis. **In:** S. Machado (Ed.), *Functional Analysis, Holomorphy, and Approximation Theory*, pp. 366–372. Lecture Notes in Mathematics **843**. Springer-Verlag, 1981.
- 81-2. The growth of restrictions of plurisubharmonic functions. **In:** L. Nachbin (Ed.), *Mathematical Analysis and Applications, Essays Dedicated to Laurent Schwartz*, pp. 435–454. Advances in Mathematics Supplementary Studies, vol. **7B**. Academic Press, 1981.
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- 83-1. The use of conjugate convex functions in complex analysis. **In:** J. Ławrynowicz; J. Siciak (Eds.), *Complex Analysis*, pp. 131–142. Banach Center Publications, vol. **11**. Warszawa: PWN, 1983.
- 83-2. The growth of compositions of a plurisubharmonic function with entire mappings. **In:** *Analytic Functions Błażejewko 1982*, pp. 257–263. Lecture Notes in Mathematics **1039**. Springer-Verlag, 1983.
- 84-1. Croissance des fonctions plurisousharmoniques en dimension infinie. *Annales de l'Institut Fourier de l'Université de Grenoble* **34** (1984), 155–183.
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- 90-1. Christer Kiselman; Kurt Nordström. A mathematical analysis of the kinetics of duplex formation. *The EMBO Journal* **9**, No. 11 (1990), 3783–3785.
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- 03-2. Behnke–Peschl-villkoret är tillräckligt för svag lineell konvexitet [The Behnke–Peschl condition is sufficient for weak lineal convexity]. **In:** *Nordan Ett*, p.6. Abstracts from *Nordan 1*, held in Trosa 1997-03-14–16, 15 pp. [Stockholm: Stockholm University 2003.]
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- 10-4. Christer O. Kiselman; Shiva Samieinia. Convexity of marginal functions in the discrete case. **In:** Shiva Samieinia (2010), *Digital Geometry, Combinatorics, and Discrete Optimization*, published on 2010-12-15. PhD Thesis defended at Stockholm University on 2011-01-21.
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- 11-3. Analytic continuation of fundamental solutions to differential equations with constant coefficients. *Actes du colloque «Analyse Complexe et Applications» en l'honneur de Nguyen Thanh Van. Annales de la Faculté des Sciences de Toulouse, Mathématiques*, (6), **20**, Fascicule Spécial, 153–182. (Submitted 2010-10-19. Accepted for publication 2010-12-20. Issue received 2011-09-12.)
- 12-1. Questions inspired by Mikael Passare's mathematics (final manuscript, 19 pages). Accepted on 2012-08-20 for publication in *Afrika Matematika*. Published online 2012-10-27 (17 pages).
- 13-1. Diskreta kaj reela optimumado. *Prelegaro, Parto II. Internacia Simpozio «Apliko de Esperanto en la profesia agado»*, 2012, pp. 72–84. Published in 2013; formal year of publication 2012. Karlovo: Akademio Internacia de la Sciencoj. (Text based on a lecture in Karlovo in June 2009.)
- 14-1. Kiel rekoni rektojn kaj strekojn inter ĉiuj kurboj kaj aliaj bildoj sur la komputila ekrano?. *Prelegaro, Volume II. Internacia Simpozio «Apliko de Esperanto en la profesia agado»*, 2013, pp. 72–92. Published in 2014; formal year of publication 2013. Karlovo: Akademio Internacia de la Sciencoj. (Text based on a lecture in Sopot on 2010 June 12.)
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- 17-3. How to best fold a triangle (25 pages). *Mathematische Semesterberichte*, published online 2017 May 12, doi: 10.1007/s00591-017-0192-5. (Submitted on 2016 December 28. Accepted for publication on 2017 March 03.)
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- 18-2. *Digita geometrio, matematika morfologio kaj diskreta optimumado*. 69 pp. Lecture notes published online 2018 March 05 at [www.ais-sanmarino.org](http://www.ais-sanmarino.org), following a course held in Warsaw, 2017 September 10–15 during the 34th University Session of the International Academy of Sciences San Marino (AIS), and held at Warszawska Szkoła Zarz@adzania, Szkoła Wyższa.
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- 20-2. Języki i nauka. **In:** Komarnicka, Małgorzata J., Ed., *V Międzynarodowe Sympozjum: Język Esperanto – Rozwijanie osobowości ludzkich na etapie młodości i trzeciego wieku — systemy edukacyjne*. Translation into Polish of 20-1, page 11 and pages 33–54. Proceedings of the Fifth International Symposium held in May 2019 in Wrocław, 138 pp. Published by Ars Libri Introligatornia, Wydawnictwo s.c. Lublin, under the auspices of Uniwersytet Wrocławski and Europejskie Centrum Edukacji Międzykulturowej. ISBN 978-83-954307-1-8.
- 20-3. Joint with Erik Melin. Existence of continuous right inverses to linear mappings in finite-dimensional geometry, 14 pp. *Mathematische Semesterberichte*. Submitted on 2020-05-27. Accepted for publication on 2020-07-29. Published online 2020-10-19.
- 20-4. Cauchy problems for discrete holomorphic functions, 17 pp. *Complex Analysis and Operator Theory* **15**, No. 3. Submitted on 2020 April 15. Accepted for publication on 2020 August 12. Published online on 2020 November 02.
- 21-1. Elementoj de digita geometrio, matematika morfologio kaj diskreta optimumado. *Matematiko translimen* **8**, 11–94. Published in January 2021. ISBN 978-80-88326-14-4.

- 21-2. Kiel plej bone faldi triangulon. *Matematiko translimen* **8**, 149–155. Published in January 2021. ISBN 978-80-88326-14-4.
- 21-3. La rektoj de Eŭklido. *Aktoj de Internacia Scienca Akademio Comenius*, Volume **2**, 192–210 (2021). Published on 2021 January 20. ISBN 978-80-88326-15-1.
- 21-4. (print version of 20-3). Kiselman, Christer Oscar; Melin, Erik. Existence of continuous right inverses to linear mappings in finite-dimensional geometry, 14 pp. *Mathematische Semesterberichte* **68**(1), 55–68. Submitted on 2020-05-27. Accepted for publication on 2020-07-29. Published online 2020-10-19. Print version published 2021-03-10.
- 21-5. (print version of 20-4). Cauchy problems for discrete holomorphic functions, 17 pp. *Complex Analysis and Operator Theory* **15**, No. 3. Submitted on 2020 April 15. Accepted for publication on 2020 August 12. Published online on 2020 November 02. Print version published on 2021 March 15.

## 2.2. Popularization of science

The items 77-5, 86-2, 89-1, 89-2, 97-2, 03-1, 07-1, 08-2, 08-4, 12-2, 14-1, 17-1, 17-4, 18-2, 20-1, 20-2, 21-1, 21-2 and 21-3 listed above, as well as 15-ii below, represent attempts at popularizing mathematics.

## 2.3. Festschrift edited by Mikael Passare

The proceedings of the *Kiselmanfest* in May, 2006, is available at <http://uu.diva-portal.org/smash/record.jsf?searchId=1&pid=diva2:286171>.

The title of the book is *Complex Analysis and Digital Geometry. Proceedings from the Kiselmanfest, 2006*. It contains a survey of my mathematics, written by Mikael Passare.

## 2.4. Two mathematical papers and a book manuscript accepted for publication

- Complex convexity, 133 pp. A manuscript intended to become a chapter in Handbook of Complex Variables, edited by Steven G. Krantz. Accepted on 2021 March 06.
- *Elements of Digital Geometry, Mathematical Morphology, and Discrete optimization*, xxii + 457 pp. Submitted on 2020 November 29. Accepted for publication on 2021 March 11 by World Scientific, Singapore; contract signed on 2021 March 18. Final version sent on 2021 May 20.
- Duality of convolution operators: A tool for shape analysis (19 pp). Submitted on 2019-04-30. Two referee reports received 2020-07-20. Revised version sent 2020-07-23. Accepted for publication on 2021-07-14.

## 2.5. Submitted for publication

- Generalized elementary functions, 16 pp. [A text on classes of functions which are elementary in wider sense than those which are elementary in the sense of Liouville.] Submitted on 2021-03-05. A referee report received on 2021-05-12. Final version submitted on 2021-05-17.

## 2.6. An unpublished manuscript

- Le théorème de Holmgren dans la théorie des hyperfonctions (deux variables). Manuscript, Stockholm 1969. 6 pp.

### 3. Linguistics

#### 3.1. Published papers on languages

- 88-a. La problemo de duarangaj derivaĵoj en Esperanto. *Akademias Studoj 1987*, 65–75. Bailieboro, Canada: Esperanto Press, 1988. ISBN 0-919186-33-5.
- 90-a. Nomoj de matematikaj operacioj en Esperanto. *Serta Gratulatoria in Honorem Juan Régulo*, vol. IV, pp.683–697. La Laguna: Universidad de La Laguna, 1990.
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- 21-iv. Carlehed, Magnus, representing twelve former PhD students; Kiselman, Christer Oscar. Urban Cegrell (1943–2021) [Obituary of my doctor #2]. **In:** *Västerbottens-Kuriren* 2021 August 17; *Svenska Dagbladet* 2021 August 24; *Dagens Nyheter* 2021 August 25.

## 5. Lecture notes and reports

- 68-A. *Notions de logique. Cours professé à la Faculté des Sciences de Nice 1967-68*. Nice 1968. 45 pp.
- 71-A. C. O. Kiselman; K.-G. Görsten; T. Waller. *Differentialekvationer [Differential Equations]*. Lecture Notes. Uppsala University, Department of Mathematics, 1971. iii + 160 pp.
- 71-B. *Some remarks on closure operators*. Report 1971:24. Uppsala University, Department of Mathematics, 1971. 7 pp.
- 71-C. *On the Garsia–Sawyer condition for uniform convergence of Fourier series*. Report 1971:25. Uppsala University, Department of Mathematics, 1971. 8 pp.
- 72-A. *Plurisubharmonic functions in vector spaces*. Report 1972:39. Uppsala University, Department of Mathematics, 1972. 11 pp.
- 72-B. *On locally pseudoconvex topological vector spaces*. Uppsala University, Department of Mathematics, 1972. 12 pp.
- 83-A. *Konvexa funktioner [Convex Functions]*. Notes, Uppsala University, Department of Mathematics, 1983. 17 pp.
- 85-A. *Matematika terminaro Esperanto-angla-franca-sveda*. Report 1985:14. Uppsala University, Department of Mathematics, 1985. iv + 30 pp.

- 86-A. *Konvekseco en kompleksa analitiko unu-dimensia*. Lecture Notes 1986:LN2. Uppsala University, Department of Mathematics, 1986. iii + 66 pp.
- 91-A. *Konvexa mængder och funktioner* [*Convex sets and functions*]. Lecture Notes 1991:LN1, 34 pp. Uppsala University, Department of Mathematics, 1991.
- 91-B. *Konvexaj aroj kaj funkcioj*. Lecture Notes 1991:LN2. Uppsala University, Department of Mathematics, 1991. 35 pp.
- 99-A. *Approximation by Polynomials*. Lecture Notes 1999:LN1. Uppsala University, Department of Mathematics, 1999. 40 pp.
- 01-A. *Lectures on Geometry*. Lecture Notes 2001:LN1. Uppsala University, Department of Mathematics, 2001. 42 pp.
- 02-A. *Digital Geometry and Mathematical Morphology*. Lecture Notes. Uppsala University, Department of Mathematics, 2002. 78 pp.
- 04-A. *Digital Geometry and Mathematical Morphology*. Lecture Notes. Uppsala University, Department of Mathematics, 2004. 95 pp. Available on the web.
- 04-B. *Specialkurs i matematik NV1*, notes for the Honors Course in Mathematics NV1, Fall Semester, 2004, 34 pp. Available on the web.
- 04-C. Convex functions on discrete sets. Uppsala University, Department of Mathematics, Report 2004:32.
- 04-D. Subharmonic functions on discrete structures. Uppsala University, Department of Mathematics, Report 2004:41, 15 pp.
- 05-A. *Matematikens två språk* [*The two languages of mathematics*.] Report 2005:25. Uppsala University, Department of Mathematics 2005. 16 pp. Also in *Medlemsblad*, Nr. 11, June 2005, pp. 21–42, published by Svensk förening för matematikdidaktisk forskning.
- 05-B. Functions on discrete sets holomorphic in the sense of Isaacs, or monodiffic functions of the first kind. Uppsala University, Department of Mathematics, Report 2005:5.
- 07-A. Trois problèmes en convexité digitale: minima locaux, fonctions marginales et hyperplans séparants. Lecture at *GeoNet VI*, Porto-Novo, 2007-06-12, 10 pp.
- 10-A. Persisk tideräkning styrs av precisa astronomiska kunskaper. I väntan på Noruz 1389 [The Persian calendar is governed by precise astronomical knowledge. Looking forward to Noruz 1389]. (Presented at Uppsala University, Department of Linguistics and Philology on 2010 March 17.)
- 18-A. *Konvexaj aroj kaj funkcioj*. Revised version of 91-B. Uppsala University, Department of Information Technology, 2018. 46 pp.

## 6. Editorial Work

	<i>Period</i>
Editor, <i>Arkiv för matematik</i>	1970–1977
Managing Editor, <i>Acta Mathematica</i>	1988–1994
Editor (with Paul Neergaard), <i>Aktoj de Internacia Scienca Akademio Comenius</i> , vol. 1 (Beijing)	1987–1992
Editor, <i>Matematiko Translimen</i> , No. 7	1992
Expert and writer for <i>Nationalencyclopedia</i> , the Swedish National Encyclopedia	1987–1996
Expert for the mathematical terms in a French-Swedish dictionary: <i>Fransk-svensk ordbok</i> , XIV + 1007 pp., Stockholm: Natur och Kultur (1995)	1995
Editor, <i>Complex Analysis and Differential Equations. Proceedings of the Marcus Wallenberg Symposium in Honor of Matts Essén, Held in Uppsala, Sweden, June 15–18, 1997</i> . Uppsala: Uppsala University (1999)	1997–1999
Editor, <i>Esperantologio / Esperanto Studies</i> , Issue No. 1 (1999)	1998–1999

Editor with Geraldo Mattos of <i>Language Planning and Lexicology: Proceedings of an international symposium held in Zagreb, July 28–30, 2001</i> . Chapecó, SC (Brazil): Fonto	2001
Editor, <i>Esperantologio / Esperanto Studies</i> , Issue No. 2 (2001)	1999–2001
Editor, <i>Symposium on Communication Across Cultural Boundaries; Simpozio pri interkultura komunikado, Göteborg 2003</i> . 157 pp. Dobřichovice: KAVA-PECH	2005
Editor, <i>Esperantologio / Esperanto Studies</i> , Issue No. 3 (2005)	2002–2005
Editor, <i>The Graduate School in Mathematics and Computing: Report 2001–2006</i> . 84 pp. Uppsala: Uppsala University, April 2006	2006
Editor, <i>Esperantologio / Esperanto Studies</i> , Issue No. 4 (2009)	2006–2009
Editor, <i>Religiaj kaj filozofiaj ideoj de Zamenhof: kultura kaj socia fono. Aktoj de la 32-a Esperantologia Konferenco en la 94-a Universala Kongreso de Esperanto, Bjalistoko 2009</i> . Rotterdam: Universala Esperanto-Asocio 2010.	2009–2010
Editor, <i>Regional and Interregional Cooperation to Strengthen Basic Sciences in Developing Countries</i> , Proceedings of a conference organized by the International Science Programme, 1–4 September 2009 in Addis Ababa. Uppsala University 2011.	2009–2010
Editor, <i>Esperantologio / Esperanto Studies</i> , Issue No. 5 (2011)	2009–2011
Editor, <i>Esperanto: komenco, aktuala kaj estonteco. Aktoj de la 33-a Esperantologia Konferenco en la 95-a Universala Kongreso de Esperanto, Havano 2010</i> . Rotterdam: Universala Esperanto-Asocio 2011.	2010–2011
Editor with Mélanie Maradan of <i>Leksikologio, frazeologio, historio, semantiko kaj terminologio: du kontinentoj renkontiĝas en Hanojo. Aktoj de la 35-a Esperantologia Konferenco en la 97-a Universala Kongreso de Esperanto, Hanojo 2012</i> . Rotterdam: Universala Esperanto-Asocio 2013.	2012–2013
Editor, <i>Esperantologio / Esperanto Studies</i> , Issue No. 6 (2013)	2011–2013
Editor, <i>Esperantologio / Esperanto Studies</i> , Issue No. 7 (2015)	2013–2015
Editor with José Antonio Vergara of <i>De esperanta korpuso ĝis islanda lingvopolitiko. Aktoj de la 36-a Esperantologia Konferenco en la 98-a Universala Kongreso de Esperanto, Rejkjaviko 2013</i> . Rotterdam: Universala Esperanto-Asocio.	2013–2015
Editor with Mats Andersson, Jan Boman, Pavel Kurasov, and Ragnar Sigurdsson of the book <i>Analysis Meets Geometry. The Mikael Passare Memorial Volume</i> , 2017, viii + 466 pp. Cham: Birkhäuser. ISBN 978-3-319-52469-6.	2011–2017
Editor with Renato Corsetti and Probal Dasgupta of the book <i>Aliroj al esperanto</i> , 2018, 229 pp. Dobřichovice: KAVA-PECH. ISBN: 978-80-87169-86-5.	2015–2017
Editor, <i>Esperantologio / Esperanto Studies</i> , Issue No. 8 (2018)	2015–2018
Editor, <i>Matematiko translimen</i> , No. 8	2020
Editor, <i>Aktoj de Internacia Scienca Akademio Compenius</i> , Volume 2	2020–2021

## 7. An unpublished short story

- 1948-02-08. *Mästerdetektiven Sebastian Alexander Efraim Pärnkärna*, 10 pp. [In Swedish. *The Master Private Investigator Sebastian Alexander Efraim Pärnkärna*]. Typewritten manuscript, Stockholm.