

Preface



This special issue of *Topology and Its Applications* is entirely dedicated to the theory of continuous selections of multivalued mappings. Since the pioneering work of Ernest Michael from 1956 can rightfully be considered as the year of birth of this theory, the reader is reading a special issue of the journal dedicated to the 50th anniversary of the theory of continuous selections. At the same time all papers of this issue are dedicated to the 80th anniversary of the founder of this theory, Ernest Michael.

The material is divided in two parts. The second part, as is customary, consists of invited original research papers which were solicited for this special issue from experts in this area. All these results are in one way the other connected with multivalued mappings and their selections. The first part, on the other hand, contains papers which are personally dedicated to Ernest Michael.

It is our pleasure to acknowledge the support of the *Topology and its Applications*, in particular, Editor-in-Chief Jan van Mill, without whose support and encouragement this issue would have never been completed.

Guest Editors
D. Repovš
P.V. Semenov

Ernest A. Michael
Complete Bibliography

1. Topologies on spaces of subsets, *Trans. Amer. Math. Soc.* 71 (1951) 152–182.
2. Locally multiplicatively-convex topological algebras, *Memoirs Amer. Math. Soc.* 11 (1952) 79 p.
3. Transformations from a linear space with weak topology, *Proc. Amer. Math. Soc.* 3 (1952) 671–676.
4. Some extension theorems for continuous functions, *Pacific J. Math.* 3 (1953) 789–806.
5. A note on paracompact spaces, *Proc. Amer. Math. Soc.* 4 (1953) 831–838.
6. Local properties of topological spaces, *Duke Math. J.* 21 (1954) 163–171.
7. Selection theorems for continuous functions, *Proc. Intern. Congr. Math.* 2 (1954) 241–242.
8. Point-finite and locally finite coverings, *Canadian J. Math.* 7 (1955) 275–279.
9. On local and uniformly local topological properties, *Proc. Amer. Math. Soc.* 7 (1956) 304–307 (with J. Dugundji).
10. Selected selection theorems, *Amer. Math. Monthly* 63 (1956) 233–238.
11. Continuous selections I, *Ann. of Math.* 63 (1956) 361–382.
12. Continuous selections II, *Ann. of Math.* 64 (1956) 562–580.
13. Continuous selections III, *Ann. of Math.* 65 (1957) 375–390.
14. Another note on paracompact spaces, *Proc. Amer. Math. Soc.* 8 (1957) 822–828.
15. A theorem on semi-continuous set-valued functions, *Duke Math. J.* 26 (1959) 647–651.
16. Dense families of continuous selections, *Fund. Math.* 47 (1959) 173–178.
17. Paraconvex sets, *Math. Scand.* 7 (1959) 372–376.
18. Convex structures and continuous selections, *Canadian J. Math.* 11 (1959) 556–575.
19. Yet another note on paracompact spaces, *Proc. Amer. Math. Soc.* 10 (1959) 309–314.
20. A class of partially ordered sets, *Amer. Math. Monthly* 67 (1960) 448–449.
21. On a theorem of Rudin and Klee, *Proc. Amer. Math. Soc.* 12 (1961) 921.
22. A note on intersections, *Proc. Amer. Math. Soc.* 13 (1962) 281–283.
23. Collared sets, in: *General Topology and its Relations to Modern Analysis and Algebra (Proc. Sympos., Prague, 1961)*, Academic Press, New York; Publ. House Czech. Acad. Sci., Prague, pp. 270–271.
24. The product of a normal space and a metric space need not be normal, *Bull. Amer. Math. Soc.* 69 (1963) 375–376.
25. Continuous selections in Banach spaces, *Studia Math. Ser. Spec. Z.I.* (1963) 75–76.
26. Completing a spread (in the sense of R.H. Fox) without local connectedness, *Indagationes Math.* 25 (1963) 629–633.
27. Cuts, *Acta Math.* 111 (1964) 1–36.
28. A linear mapping between function spaces, *Proc. Amer. Math. Soc.* 15 (1964) 407–409.
29. Three mapping theorems, *Proc. Amer. Math. Soc.* 15 (1964) 410–415.
30. A short proof of the Arens–Eells embedding theorem, *Proc. Amer. Math. Soc.* 15 (1964) 415–416.
31. Metrizability of certain countable unions, *Illinois J. Math.* 8 (1964) 351–360 (with H.H. Corson).
32. A note on closed maps and compact sets, *Israel J. Math.* 2 (1964) 173–176.
33. On a map from a function space to a hyperspace, *Math. Ann.* 162 (1965) 87–88.
34. \aleph_0 -Spaces, *J. Math. and Mech.* 15 (1966) 983–1002.
35. A selection theorem, *Proc. Amer. Math. Soc.* 17 (1966) 1404–1406.
36. Separable Banach spaces which admit 1_n^∞ approximations, *Israel J. Math.* 4 (1966) 189–198 (with A. Pelczynski).
37. Peaked partition subspaces of $C(X)$, *Illinois J. Math.* 11 (1967) 555–562 (with A. Pelczynski).
38. A linear extension theorem, *Illinois J. Math.* 11 (1967) 563–579 (with A. Pelczynski).
39. A note on k -spaces and k_R -spaces, in: *Proc. Topology Conf. Arizona State Univ., 1968*, pp. 247–249.
40. Topological well-ordering and continuous selections, *Invent. Math.* 6 (1968) 150–158 (with R. Engelking and R. Heath).
41. G_δ -sections and compact-covering maps, *Duke Math. J.* 36 (1969) 125–127.
42. Local compactness and cartesian products of quotient maps and k -spaces, *Ann. l’Inst. Fourier* 18 (1968) 281–286.
43. Bi-quotient maps and cartesian products of quotient maps, *Ann. l’Inst. Fourier* 18 (1968) 287–302.
44. Quotients of the space of irrationals, *Pacific J. Math.* 28 (1969) 629–633 (with A.H. Stone).
45. Paracompactness and the Lindelöf property for X^n and X^ω , in: *Proc. Washington State Univ. Conf. on General Topol., Pi Mu Epsilon, Dept. of Math., Washington State Univ., Pullman, Wash., 1970*, pp. 11–12.
46. On Nagami’s Σ -spaces and some related matters, in: *Proc. Washington State Univ. Conf. on General Topol., Pi Mu Epsilon, Dept. of Math., Washington State Univ., Pullman, Wash., 1970*, pp. 13–19.
47. A theorem on perfect maps, *Proc. Amer. Math. Soc.* 28 (1971) 633–634.
48. A property of the Sorgenfrey line, *Comp. Math.* 23 (1971) 185–188 (with R.W. Heath).
49. Paracompactness and the Lindelöf property in finite and countable cartesian products, *Comp. Math.* 23 (1971) 199–214.
50. On representing spaces as images of metrizable and related spaces, *Gen. Topology Appl.* 1 (1971) 329–343.
51. Spaces with point-countable bases, in: *Proc. Univ. Houston Point Set Topology Conf., Univ. Houston, Houston, Tex., 1971*, pp. 37–41.
52. A quintuple quotient quest, *Gen. Topology Appl.* 2 (1972) 91–138.

53. A new proof of a theorem of V.V. Filippov, *Israel J. Math.* 11 (1972) 394–397 (with D. Burke).
54. On two theorems of V.V. Filippov, in: *General Topology and its Relations to Modern Analysis and Algebra, III* (Proc. Third Prague Topol. Sympos., 1971), Academia, Prague, 1972, pp. 307–308.
55. Compact-covering images of metric spaces, *Proc. Amer. Math. Soc.* 37 (1973) 260–266 (with K. Nagami).
56. On k -spaces, k_R -spaces and $k(X)$, *Pacific J. Math.* 47 (1973) 487–498.
57. Countably bi-quotient maps and A -spaces, in: *Topology Conference* (Virginia Polytech. Inst. and State Univ., Blacksburg, VA, 1973), *Lecture Notes Math.*, vol. 375, Springer, Berlin, 1974, pp. 183–189.
58. Some classes of quotient maps, in: *Topological Structures* (Proc. Sympos. in Honour of Johannes de Groot (1914–1972), Amsterdam, 1973), *Math. Centre Tracts*, vol. 52, Math. Centrum, Amsterdam, 1974, pp. 55–58.
59. Quotients of countable complete metric spaces, *Proc. Amer. Math. Soc.* 57 (1976) 371–372.
60. On certain point-countable covers, *Pacific J. Math.* 64 (1976) 79–92 (with D. Burke).
61. A -spaces and countably bi-quotient maps, *Dissert. Math.* 133 (1976) 5–48 (with R.C. Olson and F. Siviec).
62. Barely continuous functions, *Bull. Acad. Polon. Sci. Ser. Sci. Math. Astronom. Phys.* 24 (1976) 889–892 (with I. Namioka).
63. \aleph'_0 -spaces and a function space theorem of R. Pol, *Indiana Univ. Math. J.* 26 (1977) 299–306.
64. σ -locally finite maps, *Proc. Amer. Math. Soc.* 65 (1977) 159–164.
65. Complete spaces and tri-quotient maps, *Illinois J. Math.* 21 (1977) 716–733.
66. A note on Eberlein compacts, *Pacific J. Math.* 72 (1977) 487–495 (with M.E. Rudin).
67. Another note on Eberlein compacts, *Pacific J. Math.* 72 (1977) 497–499 (with M.E. Rudin).
68. Uniform AR's and ANR's, *Comp. Math.* 39 (1979) 129–139.
69. Some results on continuous selections, in: *Topological Structures, II* (Proc. Sympos. Topology and Geom., Amsterdam, 1978), *Math. Centre Tracts*, vol. 115, Math. Centrum, Amsterdam, 1979, pp. 161–163.
70. A unified theorem on continuous selections, *Pacific J. Math.* 87 (1980) 187–188 (with C. Pixley).
71. Continuous selections and finite-dimensional sets, *Pacific J. Math.* 87 (1980) 189–197.
72. Continuous selections and countable sets, *Fund. Math.* 111 (1981) 1–10.
73. Inductively perfect maps and tri-quotient maps, *Proc. Amer. Math. Soc.* 82 (1981) 115–119.
74. On maps related to σ -locally finite and σ -discrete collections of sets, *Pacific J. Math.* 98 (1982) 139–152.
75. A result on shrinkable open covers, *Topology Proc.* 8 (1983) 37–43 (with G. Gruenhagen).
76. Spaces determined by point-countable covers, *Pacific J. Math.* 113 (1984) 303–332.
77. A parametrization theorem, *Topology Appl.* 21 (1985) 87–94 (with G. Mägerl and R.D. Mauldin).
78. A note on completely metrizable spaces, *Proc. Amer. Math. Soc.* 96 (1986) 513–522.
79. A note on a selection theorem, *Proc. Amer. Math. Soc.* 99 (1987) 575–576.
80. Continuous selections avoiding a set, *Topology Appl.* 28 (1988) 195–213.
81. Continuous selections: a guide for avoiding obstacles, in: *General Topology and its Relations to Modern Analysis and Algebra, VI* (Prague, 1986), *Res. Exp. Math.* 16 (1988) 345–349.
82. Two questions on continuous selections, *Questions Answers Gen. Topol.* 6 (1988) 41–42.
83. A generalization of a Theorem on Continuous Selections, *Proc. Amer. Math. Soc.* 105 (1989) 236–243.
84. Some problems, in: J. van Mill, G.M. Reed (Eds.), *Open Problems in Topology*, North-Holland, Amsterdam, 1990, pp. 271–278.
85. Almost complete spaces, hypercomplete spaces and related mapping theorems, *Topology Appl.* 41 (1991) 113–130.
86. Partition-complete spaces are preserved by tri-quotient maps, *Topology Appl.* 44 (1992) 235–240.
87. Some refinements of a selection theorem with 0-dimensional domain, *Fund. Math.* 140 (1992) 279–287.
88. Selection theorems with and without dimensional restriction, in: *Recent Developments of General Topology and its Applications*, International Conference in Memory of Felix Hausdorff (1868–1942), *Math. Research* 67, Berlin, 1992, pp. 218–222.
89. Representing spaces as images of 0-dimensional spaces, *Topology Appl.* 49 (1993) 217–220 (with M.M. Choban).
90. A note on bi-quotient and tri-quotient maps, *Bull. Polish Acad. Sci.* 41 (1993) 285–291.
91. A note on global and local selections, *Topology Proc.* 18 (1993) 189–194.
92. Partition-complete space and their preservation by tri-quotient and related maps, *Topology Appl.* 73 (1996) 121–131.
93. Partition-complete paracompact k -space are preserved by closed maps, *Topology Appl.* 96 (1999) 63–73.
94. J -spaces, *Topology Appl.* 102 (2000) 315–339.
95. A survey of J -spaces, in: *Proc. Toposym 2001*, *Topology Atlas*, pp. 191–193.
96. Closed retracts and perfect retracts, *Topology Appl.* 121 (2002) 451–468.
97. A theorem of Nepomnyashchii on continuous subset-selections, *Topology Appl.* 142 (2004) 235–244.
98. Continuous Selections, *Encyclopedia of General Topology*, c-8 (2004) 107–109.
99. Paracompact spaces, *Encyclopedia of General Topology*, d-12 (2004) 195–197.
100. A note on convex G_δ -subsets of Banach spaces, *Topology Appl.* 155 (8) (2008) 858–860 (with I. Namioka).