

業績目録(澤谷邦男)

著者	東北大学史料館
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東北大学定年退職教員業績目録第 2012-25 号

澤 谷 邦 男 教授 業績目録

平成 25 年 3 月

澤 谷 邦 男

SAWAYA Kunio

最終所属部局	工学研究科	
職名	教授	
生年月日	1949年2月21日	
出身学校	東北大学工学部通信学科	1971年卒業
出身大学院	東北大学大学院工学研究科修士課程（電気及通信工学専攻）	1973年修了
	東北大学大学院工学研究科博士課程（電気及通信工学専攻）	1976年修了
取得学位	工学博士（東北大学）	1976年
略歴	東北大学工学部助手	1976年～1987年
	東北大学工学部助教授	1987年～1993年
	在外研究員（米国オハイオ州立大学）	1992年～1993年
	東北大学工学部教授	1993年～1997年
	東北大学大学院工学研究科教授	1997年～2013年

<研究活動に関する情報>

専門分野

電磁波工学

研究課題

1. プラズマ中のアンテナに関する研究
2. 電磁波の散乱・回折の理論と数値解析法に関する研究
3. 移動通信用アンテナに関する研究
4. 磁気共鳴イメージング用アンテナに関する研究
5. 環境電磁工学における電磁界解析に関する研究

所属学会

電子情報通信学会, 映像情報メディア学会, IEEE

学会活動

IEEE Antennas and Propagation Society Tokyo Chapter Chair	1999年
電子情報通信学会アンテナ・伝播研究専門委員長	2001年～2003年
映像情報メディア学会東北支部長	2006年～2007年
電子情報通信学会人体周辺の電波利用技術研究会委員長	2006年～2008年
IEEE Sendai Section Vice-chair	2008年～2009年
電子情報通信学会理事通信ソサイエティ会長	2009年～2010年
電子情報通信学会東北支部長	2009年～2010年
IEEE Sendai Section Chair	2012年～2014年

会議の主催・運営

- 1999 International Symposium on Electromagnetic Compatibility (EMC 1999) 組織・実行委員会
副委員長
- 2000 International Symposium on Antennas and Propagation (ISAP 2000) 実行委員会副委員長
- 2004 International Symposium on Antennas and Propagation (ISAP 2004) 組織・実行委員会委員長

学術受賞

電子通信学会学術奨励賞	1981年
電子情報通信学会論文賞	1988年
電波の日表彰（東北電気通信監理局長表彰）	1996年
EMC'04/Sendai Excellent Awards	2004年
電子情報通信学会フェロー	2005年
電子情報通信学会通信ソサイエティ論文賞	2006年
ISAP 2008 Best Paper Award	2008年
電子情報通信学会論文賞	2009年
電子情報通信学会喜安善市賞	2009年

登録済特許

1. 円形フェイズドアレイアンテナシステム, 1985年6月6日出願(昭60-123204), 1986年12月12日公開(昭61-281604), 1996年4月9日登録(特許2040831).
2. 移動通信端末, 1988年3月2日出願(昭63-048966), 1989年9月5日公開(平01-222502), 1996年4月16日登録(2509970).
3. アレイアンテナ, 1988年11月10日出願(昭63-284250), 1990年5月18日公開(平02-130007), 1998年9月18日登録(2827014).
4. アレイアンテナ, 1989年1月25日出願(平01-152429), 1990年8月2日公開(平02-195703), 1999年7月16日登録(2952417).
5. アレーランテナ, 1995年8月14日出願(平7-228525), 1997年2月25日公開(平9-55621), 2001年3月16日登録(特許3169325).
6. 生体近傍アンテナの解析支援方法およびその方法によるアンテナ設計支援装置, 1991年10月9日出願(平3-261823), 1993年4月20日公開(平5-95931), 2001年3月30日登録(特許3174365).
7. アレーランテナ, 1999年12月28日出願(平11-372724), 2001年7月10日公開(2001-189620), 2003年5月30日登録(特許3435378).
8. 広帯域アレーランテナ, 1999年12月2日出願(平11-343285), 2001年6月12日公開(2001-160710), 2003年9月5日登録(特許3469834号).
9. アレイアンテナ装置、これを用いた携帯端末および相互結合補償方法, 2003年2月24日出願(2003-46164), 2004年9月16日公開(2004-260319), 2008年6月27日登録(特許4146743).
10. 広帯域フェルミアンテナの設計方法及び設計プログラム, 2004年3月2日出願(2004-58031), 2007年5月10日公開(2007-116205), 2008年10月31日登録(特許4208077).
11. RFIDタグ装置, 2004年10月19日出願(2004-304876), 2005年10月6日公開(2005-278139), 2009年6月19日登録(特許4328705).
12. 受信アレイアンテナ装置, 2004年12月17日出願(2004-365169), 2006年6月29日公開(2006-174186), 2010年2月12日登録(特許4453874).
13. センサタグ、センサタグ装置、受電力回路、センサタグ装置の電力供給方法, 2006年7月14日出願(特願2007-526000, 国際出願PCT/JP2006/314095), 2007年1月25日公開(WO2007/010869), 2011年4月22日登録(特許4725979).

14. キャビティ付き薄型スロットアンテナ及びアンテナ給電方法並びにこれらを用いた RFID タグ装置, 2006 年 9 月 5 日出願 (2006-239685), 2008 年 3 月 21 日公開 (2008-66808), 2011 年 12 月 2 日登録 (特許 4874035).
15. 無線タグ装置、受電力回路、および無線タグ読み取り方法, 2011 年 3 月 8 日出願 (2011-50448), 2011 年 10 月 13 日公開 (2011-205632), 2012 年 7 月 6 日登録 (特許 5031913).
16. アンテナ装置, 2007 年 3 月 26 日出願 (2007-80180), 2008 年 10 月 9 日公開 (2008-244668), 2012 年 7 月 27 日登録 (特許 5046698).

公開中特許

1. 携帯無線機用ダイバーシチアンテナ, 1992 年 3 月 16 日出願 (平 4-57991), 1993 年 10 月 8 日公開 (平 5-259725).
2. アンテナの設計支援方法および設計支援装置, 1993 年 6 月 30 日出願 (平 5-160916), 1995 年 1 月 24 日公開 (平 7-22976).
3. アンテナの過渡応答の解析支援方法および解析支援装置, 1993 年 7 月 23 日出願 (平 5-182459), 1995 年 2 月 7 日公開 (平 7-35802).
4. 携帯無線機用アンテナ, 1995 年 6 月 7 日出願 (平 7-139763), 1996 年 12 月 17 日公開 (平 8-335819).
5. 電磁場解析方法及び解析装置, 1995 年 6 月 28 日出願 (平 7-161742), 1997 年 1 月 17 日公開 (平 9-15281).
6. プラズマ処理装置, 2000 年 4 月 13 日出願 (2000-112398), 2001 年 10 月 26 日公開 (2001-297899).
7. マ生成用アンテナ評価装置及び方法, 2002 年 2 月 14 日出願 (2002-37119), 2003 年 8 月 29 日公開 (2003-243309).
8. アンテナ素子及びアンテナ装置, 2002 年 6 月 7 日出願 (2002-167182), 2004 年 1 月 15 日公開 (2004-15500).
9. アレーレスピンシミュレータ, 2002 年 10 月 21 日出願 (2002-306067), 2004 年 5 月 20 日公開 (2004-145384).
10. 電磁界測定装置, 2003 年 2 月 19 日出願 (2003-40599), 2004 年 9 月 9 日公開 (2004-251679).
11. アンテナ装置, 2003 年 2 月 19 日出願 (2003-40600), 2004 年 9 月 9 日公開 (2004-253942).
12. 信号到来方位推定装置および指向性制御装置, 2004 年 1 月 30 日出願 (2004-24458), 2005 年 8 月 11 日公開 (2005-214884).
13. アンテナ装置および移動通信端末装置, 2004 年 3 月 31 日出願 (2004-104118), 2005 年 10 月 20 日公開 (2005-295002).
14. 近傍電磁界測定法ならびに近傍電磁界測定装置, 2004 年 6 月 29 日出願 (2004-191607), 2006 年 1 月 12 日公開 (2006-10635).
15. アダプティブアレーインテナ装置, 2004 年 8 月 6 日出願 (2004-231577), 2006 年 2 月 16 日公開 (2006-50458).

16. 電磁界測定装置, 2005 年 2 月 25 日出願(2005-50151), 2006 年 9 月 7 日公開(2006-234602).
17. 非接触 I C タグ及び非接触 I C タグ通信システム, 2005 年 3 月 23 日出願 (2005-84617), 2006 年 10 月 5 日公開 (2006-268359).
18. 移動通信端末装置, 2005 年 3 月 31 日出願 (2005-102490), 2006 年 10 月 19 日公開 (2006-287432).
19. 無線タグ装置, 無線タグ用アンテナ, 受電力回路, 無線タグ読み取り方法, 2006 年 3 月 24 日出願 (2006-82458), 2007 年 10 月 4 日公開 (2007-259213).
20. アンテナ, 2008 年 2 月 23 日出願 (2008-74567), 2009 年 9 月 3 日公開 (2009-198474).
21. ミリ波撮像装置, 2008 年 6 月 27 日出願(2008-168864), 2010 年 1 月 14 日公開(2010-8273).
22. ミリ波撮像装置, 2008 年 6 月 27 日出願(2008-168865), 2010 年 1 月 14 日公開(2010-8274).
23. 伝送線路基板及び高周波部品の測定装置, 2008 年 6 月 27 日出願 (2008-168874), 2010 年 1 月 14 日公開 (2010-8275).
24. リフレクトアレイ, 2009 年 7 月 7 日出願(2009-161274), 2011 年 1 月 27 日公開(2011-19021).
25. ミリ波撮像装置, ミリ波撮像システムおよびプログラム, 2009 年 12 月 15 日出願 (2009-284080), 2011 年 6 月 30 日公開 (2011-127914).
26. ミリ波撮像装置, 2011 年 4 月 12 日出願 (2011-88368), 2011 年 11 月 24 日公開 (2011-237417).
27. ミリ波撮像装置, 2010 年 7 月 16 日出願 (2010-162059), 2012 年 2 月 2 日公開 (2012-21954).
28. リフレクトアレイ, 2010 年 8 月 27 日出願 (2010-191568), 2012 年 3 月 8 日公開 (2012-49931).
29. マイクロ波帯昇圧整流回路及びこれを用いた無線タグ装置と無線タグシステム, 2010 年 12 月 28 日出願 (2010-293145), 2012 年 7 月 26 日公開 (2012-142732).

競争的資金獲得状況（2002 年以降）

1. 閉面走査による不要電磁波の発生源推定の高分解能化に関する研究, 2002~2003 年度文部科学省科学研究費基盤研究(C) (代表者 : 澤谷邦男) .
2. インテリジェントコミュニケーションインターフェース, 2002~2006 年度文部科学省知的クラスター創生事業仙台クラスター (代表者 : 澤谷邦男) .
3. 移動通信携帯端末に用いるアダプティブペティブアレーランテナの開発, 2005~2007 年度文部科学省科学研究費基盤研究(A) (代表者 : 澤谷邦男) .
4. 測位及び双方向無線通信システムの高速化・省電力化技術の研究開発, 2009~2011 年度総務省戦略的情報通信研究開発推進制度 (SCOPE) (代表者 : 澤谷邦男) .
5. 超高速移動通信システムの実現に向けた要素技術の研究開発, 2009~2012 年度総務省委託研究電磁資源拡大のための研究開発 (代表者 : 澤谷邦男) .
6. ミリ波パッシブイメージング装置の開発と実用化, 2010~2012 年度(独)科学技術振興機構科学技術戦略推進費 安全・安心な社会のための犯罪・テロ対策技術等を実用化するプログラム (代表者 : 澤谷邦男) .

<教育活動に関する情報>

担当授業科目（学外含む）

東北大學

電磁波工学（ワイヤレス伝送工学）（工学部）	1988年～2012年
電磁気学A（工学部）	1988年～2003年
電磁気学C（電磁気学II）（工学部）	2004年～2012年
通信システム工学B（コミュニケーション工学B）（工学部）	2006年～2012年
Electricity and Magnetism B（短期留学生プログラム）	1998年～2012年
総合科目「エネルギーを考える」（全学教育科目）	2003年～2005年
電磁波工学（工学研究科）	2005年～2011年
電磁理論（工学研究科）	1994年～2011年
波動伝送理論（工学研究科）	2012年～2013年
宮城高等工業専門学校（非常勤）	
通信工学	2007年～2009年
特別講義	2007年～2011年
東北電力研修センター専門部（非常勤）	
電気磁気学	1994年～2011年

<大学運営に関する情報>

学内委員

学友会軽音楽部部長	1988年～2013年
工学部入試検討委員会特別入試小委員長	1994年～1999年
SCS 実施委員会専門委員長	1995年～2001年
アドミッションセンター長	2000年～2001年
入試委員会研究委員長	2000年～2001年
アドミッションセンター運営委員長	2000年～2001年
工学研究科国際交流委員長	2002年～2004年
工学研究科国際交流室長	2004年～2006年
教育研究評議員	2007年～2009年
サイバーサイエンスセンター運営専門委員	2000年～2013年

その他

名古屋大学プラズマ研究所共同研究員	1985年～1989年
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<社会活動に関する情報>

行政機関・企業・NPO等参加

基盤技術研究促進センター技術評価委員会専門委員	1988年～1991年
東北電力㈱総合研修センター専門部講師	1993年～2011年
宇宙開発事業団客員開発部員	1995年～2000年
仙台市科学館仙台市児童生徒理科作品展審査員	1994年～2002年
東北マルチメディア・アプリケーション技術開発推進協議会	
地上デジタル実験部会長	1998年～2003年
通信・放送機構東北地上デジタル放送研究開発支援センター	
公募利用審査委員長	1999年～2003年
通信・放送機構仙台EMCリサーチセンタープロジェクト	

サブリーダー	2000 年～2005 年
東北受信環境クリーン協議会長	2001 年～2013 年
仙台市環境影響評価審査会委員	2001 年～2003 年
財団法人国際コミュニケーション基金審査委員	2001 年～2006 年
YRP 情報通信技術研修（株式会社横須賀テレコムリサーチパーク） 講師	2005 年～2011 年
NTT ドコモ総合研究所 研究アドバイス会議アドバイザ	2006 年～2007 年
財団法人村田学術振興財団選考委員	2006 年～2013 年
生体電磁環境に関する委託研究の評価委員会（財団法人テレ コム先端技術研究支援センター）委員	2007 年～2010 年
財団法人電気通信工学振興会理事	2007 年～2013 年
マスプロ電工株式会社顧問	2007 年～2013 年
科学研究費委員会専門委員（独立行政法人日本学術振興会） エネルギー管理士受験準備直前対策講座・エネルギー管理研修 (財団法人省エネルギーセンター東北支部) 講師	2008 年～2012 年 2007 年～2013 年
生体電磁環境研究の評価に関する会合（総務省）構成員	2010 年～2013 年

業績リスト

I. 著書・編書

1. 電子情報通信学会編, “エンサイクロペディア電子情報通信ハンドブック,” 分担執筆 [5-13編アンテナ], オーム社, Nov. 1998.
2. 仁田 周一, 上 芳夫, 佐藤 由郎, 杉浦 行, 濱戸 信二, 藤原 修編, “環境電磁ノイズハンドブック,” 分担執筆 [1.4節アンテナ理論], 朝倉書店, June 1999.
3. 電気学会「電磁波の散乱・吸収計測技術調査専門委員会」編, “電磁波の散乱・吸収計測と建築電磁環境,” 分担執筆 [5.3節アンテナの放射効率の測定法], コロナ社, July 2000.
4. 桑野博喜監修, “MEMS/NEMS工学全集,” 分担執筆 [第4章 第3節 ワイヤレス送受信, アンテナ, 電磁カップリング], テクノシステム, April 2009.
5. 電子情報通信学会編, “アンテナ工学ハンドブック（第2版）,” 出版委員会委員長, 分担執筆 [第1章, 第2章, 第1章, 2.1節, 2.3～2.7節, 2.10～2.11節, 4.3節, 4.7～4.8節, 12.1.4節, 12.3.2～12.3.6], オーム社, Oct. 2008.
6. 映像情報メディア学会 編, “映像情報メディア工学大事典,” 分担執筆 [継承技術編, 第1部門4.1節八木・宇田アンテナ], オーム社, June 2010.
7. 高木相監修, “EMC 原理と技術 EMI/EMC測定の電磁気と回路,” 分担執筆 [V-1節 電波の放射メカニズム], 丸善, Feb. 2010.

II. 論文等

○学術研究論文

1. 石曾根 孝之, 澤谷 邦男, 安達 三郎, 號明 康人, “ダイポールアンテナの電子プラズマ波に対する送受信指向性の測定,” 電子情報通信学会論文誌 B, Vol. 57-B, No. 2, pp.129-134, Feb. 1974.

2. T. Ishizone, K. Sawaya, S. Adachi, and Y. Mushiake, "Measurements of the Transmitting and the Dipole Antenna for an Electron Plasma Wave," IEEE Trans. Antennas Propagat., Vol. AP-22, No. 5, pp.662-666, Sep. 1974.
3. 澤谷 邦男, 水野 秀樹, 石曾根 孝之, 虫明 康人, "一軸異方性プラズマ中の線状アンテナの特性," 電子情報通信学会論文誌 B, Vol. 59-B, No.4, pp.254-261, April. 1976.
4. K. Sawaya, T. Ishizone, and Y. Mushiake, "Measurement of the Impedance of a Linear Antenna in a Magnetoplasma," Radio Science, Vol. 13, No. 1, pp.21-29, Jan.-Feb. 1978.
5. 堀口 進, 澤谷 邦男, 石曾根 孝之, 虫明 康人, "共役こう配法を用いた球面円形配列アンテナの指向性合成," 電子情報通信学会論文誌 B, Vol. 63-B, No. 1, pp.40-47, Jan. 1980.
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III. 総説・解説

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