# Memoriu de activitate si lista de citari
# Prof. dr. Gigel Militaru

- **Activitate didactica**
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## Activitatea didactica

Am absolvit Facultatea de Matematica a UB in 1989 (cu media 9,90) si anul V de specializare „Algebra si Geometrie" in 1990 cu media 10. Din 1991 am parcurs toate treptele ierarhiei academice fiind din 2002 profesor la Departamentul de Matematica. In octombrie 1994 am sustinut teza de doctorat si obtinut titlul de doctor in matematica la UB. Sunt conducator de doctorat din 2008.
Am **predat** toate cursurile obligatorii de algebra la anii I-III, numeroase cursuri optionale propuse de subsemnatul (Algebra Necomutativa, Capitole speciale de algebra moderna, Introducere in Algebra Moderna, Algebre Hopf si grupuri cuantice, Grupuri finite) si cursuri din cadrul programului de masterat ca: Inele si Categorii de module, Teoria Categoriilor, Algebre Hopf, Grupuri cuantice, Algebre Lie (ultimul in acest an universitar).
Am **indrumat primii pasi spre cercetare** la numerosi studenti la licenta/master dintre care mentionez: Ion Bogdan, Mona Stanciulescu, Miodrag Iovanov, Ana Agore, Alexandru Chirvasitu, Dragos Fratila, Costel Bontea. Acestia au scris articole (in colaboare cu subsemnatul sau care abordeaza probleme propuse de mine) publicate toate in reviste din strainatate cotate ISI. Intre anii 2007-2010 am initiat si coordonat **Seminarul Stiintific Studentesc de Algebra** care s-a desfasurat saptaminal (intensiv 3 ore pe saptamina) in UB si ale carui roade s-au vazut: studentii participanti au scris in acea perioada 8 articole ce abordeaza probleme propuse de subsemnatul in cadrul seminarului si au devenit ulterior doctoranzi la Berkley, Paris, Brussel, Leicester, New Hampshire.
Am **publicat** doua carti dintre care o monografie este publicata in Springer Lecture Notes.

## Activitate de cercetare: privire de ansamblu si profil

Am publicat sau sunt in curs de publicare 55 de articole din care 49 sunt publicate/acceptate in reviste cotate ISI. 30 de articole sunt publicate in reviste cu factor de impact >0.5. Dintre revistele generale de matematica in care am publicat mentionez: *Adv. Math., Trans. AMS, J. London Math. Soc, J. Noncommutative Geometry, Is. J Math., K-Theory, Monatshefte fur Mathematik, Annales Institut Fourier*.

Sunt citat in peste 560 de lucrari din strainatate (din care peste 280 in reviste cotate ISI) de peste 200 de matematicieni. Nota: revistele de specialitate in algebra (J. Algebra, J. Pure. App. Algebra, Comm. Alg. etc), au dintre toate revistele de specialitate (geometrie, analiza, ecuatii, etc.) cel mai mic factor de impact datorita numarului mai mic de articole publicate anual (cf. http://front.math.ucdavis.edu/math ) si implicit, pe plan mondial, **numarul de citari in algebra abstracta este mult mai mic** in raport cu alte discipline ale matematicii

pure/aplicate. Lista de citari este anexata (doar in formatul electronic) si nu contine nicio citare publicata in revistele din tara.

Am indicele Hirsch = 10 (calculat de ISI Web of Science) si h-index = 15 (calculat de Google Academic). Pe linga citarile din revistele de algebra sunt citat in reviste ca: *Acta Mathematica (Mittal-Leffler), Memoirs AMS, J. Reine Angew. Math., Adv. Math., Compositio Math., Trans. AMS, Comm. Math. Physics, Letters Math Phys. , J. London Math. Soc, J. Noncommutative Geometry, Math. Z., J. Math. Physics, etc.*

Domeniul principal de cercetare: algebre Hopf si grupuri cuantice (cu focus pe metode categoricale, teoria (co)reprezentarilor, module cuantice Yetter-Drinfel'd, teoria coringurilor) in care am publicat peste 35 de articole. Detaliile pe scurt sunt date mai jos.

Domenii secundare de cercetare (din ultimii ani): teoria grupurilor (am publicat 5 articole) si algebre neasociative (algebre Lie/Leibniz/Poisson) in care am publicat 8 articole. In aceste domenii vizez demonstrarea unor teoreme de structura si clasificare referitor la cateva probleme celebre si inca deschise: problema extinderii (Holder), problema factorizarii (Ore), unificarea celor doua probleme (introdusa in articolele [34] si [45]), problema clasificarii complementilor (‚bicroseed descent theory' - introdusa in [40]).

Parte dintre rezultatele stiintifice obtinute de sus-semnatul si de alti autori, formulate la un nivel mai general al structurilor "entwining" (introduse in geometria necomutativa la sfirsitul anilor 90) si reprezentarile lor, au constituit structura monografiei stiintifice

S. Caenepeel, G. Militaru, S. Zhu - Frobenius and separable functors for generalized module categories and nonlinear equation, *Springer Lecture Notes in Mathematics*, Vol. 1787 (2002), 354 pg.

Desi este o monografie de stricta specializare ea a generat un impact notabil pentru algebra abstracta fiind citata in peste 120 articole care au preluat si continuat temele de cercetare introduse, metodele de abordare, problemele formulate.

Sunt editor la 4 reviste din strainatate si am fost referent la numeroase reviste. Am condus ca director de proiect doua programe de cercetare de tip IDEI in tara (in care au facut parte ca membri, doar tineri cercetatatori) si un program international, ca si co-promotor, finantat de guvernul flamand si cel roman.

- **Profil in bazele de date**

**Profil Google Academic (4 septembrie 2015):**
https://scholar.google.ro/citations?user=aYspv6MAAAAJ&hl=ro

| **Indexuri pentru citate** | Toate | Din 2010 |
|---|---|---|
| Referinţe bibliografice | 947 | 423 |
| h-index | 15 | 11 |
| i10-index | 24 | 12 |

**Profil ISI Web of Science (4 septembrie 2015):**
http://apps.webofknowledge.com/summary.do?product=UA&parentProduct=UA&search_mode=CitationReport&parentQid=7&qid=8&SID=4CyQ8Jpqotr9BSyNqL8&&page=1&action=sort&sortBy=TC.D;PY.D;AU.A.en;SO.A.en;VL.D;PG.A

Citation Report: 40
You searched for: AUTHOR: (Militaru, G)
Refined by: RESEARCH AREAS: ( MATHEMATICS )

| | |
|---|---|
| Results found: | 40 |
| Sum of the Times Cited [?] : | 309 |
| **Sum of Times Cited without self-citations [?] :** | **242** |
| Citing Articles [?] : | 223 |
| Citing Articles without self-citations [?] : | 195 |
| Average Citations per Item [?] : | 7.72 |
| **h-index [?] :** | **10** |

**Profil MathSciNet (4 septembrie 2015)**
http://www.ams.org.ux4ll8xu6v.useaccesscontrol.com/mathscinet/search/author.html?mrauthid=349327

MR Author ID: 349327
Earliest Indexed Publication: 1992
Total Publications: 50
Total Citations: 400
Gigel Militaru is cited 400 times by 201 authors in the MR Citation Database
Nota: MathScinet noteaza citarile dupa anul 2000. Nici MathScinet si nici ISI Web of Science nu cuprind toate citarile. Lista de citari sunt anexate la sfirsit.

## Rezultate stiintifice relevante:

Un domeniul prioritar de studiu a fost (anii 1995-2005) categoria de Doi-Hopf (sau Doi-Koppinen) module introduse independent de Doi (1992) si Koppinen (1994). Ea este *categoria de reprezentari* a unui triplet (H, A, C), format dintr-o algebra Hopf H care simultan coactioneaza pe o algebra A si actioneaza pe o coalgebra C. Motivul pentru care studiul acestei categorii a stirnit un interes enorm fiind generalitatea ei: categoria clasica de reprezentari de grupuri sau mai general reprezentarile unei algebre asociative, coreprezentarile unei coalgebre, modulele Hopf clasice (introduse pentru teoria integralelor) sau generalizarile lor relative (introduse pentru dezvoltarea unei teorii Galois generale si algebrizarea conceptului de spatii omogene din geometria algebrica), modulele Long (introduse pentru studiul grupului Brauer), modulele graduate dupa un grup sau o G-multime, etc. sunt toate cazuri speciale de Doi-Hopf module. Din acest motiv o teorema obtinuta pentru ele este una

extrem de generala si unificatoare, cu aplicabilitate in toate categoriile mentionate mai sus ca si cazuri speciale. Primul articol important dedicat acestei categorii a fost

[R1] Crossed modules and Doi-Hopf modules, *Israel J. Math.*, 100(1997), 221-247 (cu S. Caenepeel si Shenglin Zhu).

**"Unificare":** Independent de diversele categorii clasice de module Hopf relative introduse pana atunci si din cu totul alte domenii ale matematicii (teoria nodurilor, 3-varietati, topologii de dimensiuni mici si ecuatia cuantica Yang-Baxter) in 1990 Yetter (un topolog) a introdus, ceea ce ulterior s-a numit categoria de module cuantice Yetter-Drinfel'd. Definitia ei pentru o algebra Hopf este complet diferita de cea a modulelor Hopf clasice, relatia de compatibilitate fiind una extrem de diferita de tot ce se stia pana atunci (cand am redactat monografia [1] am realizat ca ea masoara de fapt o abatere a unei aplicatii ‚canonice' – o duala de ‚omotetie' – de a fi solutie la ecuatia cuantica Yang-Baxter). In lucrarea [R1] am aratat ca aceste doua categorii (module Hopf clasice si module cuantice Yetter-Drinfel'd), complet diferite ca definitie si studiate independent pina acum, sunt de fapt ambele cazuri particulare ale aceleiasi categorii generale de Doi-Hopf module. Mai mult, ca bonus important, am aratat ca dublul Drinfel'd (un obiect fundamental in teoria grupurilor cuantice) este un produs semidirect generalizat. In concluzie, studiul categoriei de Doi-Hopf module unifica si partea cuantica cu cea clasica din teoria algebrelor (Hopf). *Impact:* articolul [R1] are 40 de citari din care 29 de citari ISI Web of Science.

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[R2] Doi-Hopf modules, Yetter-Drinfel'd modules and Frobenius type properties, *Trans. AMS*, 349(1997), 4311-4342 (cu S. Caenepeel and Shenglin Zhu).

[R3] Separable functors for the category of Doi-Hopf modules. Applications, *Adv. in Mathematics*, 145(1999), 239-290 (cu S. Caenepeel, Bogdan Ion, S. Zhu)

**"Cuantizare":** rezultatul din [R1] ne-a permis sa introducem o noua metoda (categoricala) a problemei de "cuantizare". Pe scurt e vorba de a obtine versiuni cuantice (i.e. teoreme valabile la nivelul modulelor Yetter-Drinfel'd) ale unor rezultate clasice din teoria modulelor sau a reprezentarilor unei algebre (coalgebre, algebre Hopf). Principalele teme urmarite au fost *separabilitatea, teoria Frobenius* si *teoria (cuantica) Galois.* Dintre rezultatele obtinute in aceasta directie cele mai importante si citate sunt cele din [R2], [R3] precum si din articolele [9], [22], [25], [26] din lista de publicatii. In studiu am introdus noi concepte si metode de lucru (categoricale) care s-au dovedit eficiente cum ar fi: concepte generale de integrale sau integrale cuantice, functori Frobenius si functori Frobenius de al doilea tip, elemente de tip Cazimir generalizate, functori separabili de al doilea tip, functori Maschke, extinderi Galois cuantice, etc. Am ales aceste tematici din urmatoarele motive. Conceptul de obiect Frobenius este vast intilnit si intens studiat in matematica deoarece el codifica 'simetria' si 'finitudinea'. In [R2] am definit conceptul de functor Frobenius (cea mai larga generalizare posibila a conceptului) si am demonstrat rezultate privind structura lor. Ca si aplicatii importante la nivel (cuantic) de module Yetter-Drinfel'd am aratat ca functorul ce uita co-actiunea unui astfel de obiect e Frobenius daca si numai daca H este o algebra Hopf finit dimensionala si unimodulara. In particular, dublul Drinfel'd D(H) este o extindere Frobenius a lui H daca si numai daca H este unimodulara (i.e. spatiul intregralor stingi si drepte coincid). In [R3] am aplicat aceeasi metoda generala pentru un alt concept clasic si vast intilnit in matematica pura: separabilitatea. Initiata in teoria Galois de corpuri si generalizata ulterior din motive de coomologie la nivel de algebre/extinderi separabile, in [R3] sunt date criterii necesare si

suficiente de separabilitate pentru acelasi functor reprezentativ. Evident am indicat aplicatii la nivel de module cuantice Yetter-Drinfel'd. *Impact:* Articolul [R2] (reps. [R3]) are 28 (resp. 24) de citari

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[R4] The structure of Frobenius algebras and separable algebras, *K-Theory*, 19(2000), 365-402 (cu S. Caenepeel si Bogdan Ion).

[R5] Heisenberg double, pentagon equation, structure and classification of fnite dimensional Hopf algebras, *J. London Math. Soc.*, 69 (2004), no. 1, 44-64.

**"Ecuatii neliniare - structura si clasificare ":** o alta directie de studiu pe care am introdus-o se refera la utilizarea algebrelor Hopf si a diverselor categorii de obiecte care se pot defini peste ele in *rezolvarea de ecuatii neliniare.* Sursa de inspiratie a constituit-o faimoasa teorema FRT (Faddeev-Reshetikhin-Takhtajan) care a fost una dintre puntile de legatura intre celebra ecuatie cuantica Yang-Baxter si algebre Hopf. Tehnica generala este explicata in [16] iar dintre articolele publicate cele mai relevante sunt [R4] si [R5]. In [R4] studiul unei clase speciale de printre solutiile ecuatiei cuantice Yang-Baxter (am numit-o *ecuatia Frobenius-separabilitate*) ne-a condus in mod surprinzator la teoreme de structura pentru doua tipuri importate de algebre finit dimensionale: *algebrele Frobenius si algebrele separabile*. In [23] studiul *ecuatiei pentagon* (numita *ecuatia de fuziune* in fizica), studiata si in teoria dualitatii pentru algebre de operatori in articolele lui Baaj si Skandalis, mi-a permis sa demonstrez teoreme de structura si de clasificare pentru algebre Hopf finit dimensionale. Pe scurt, am aratat ca a da o algebra Hopf finit dimensionala (i.e. grup cuantic finit) este echivalent cu a da o matrice patratica care verifica ecuatia pentagon – constructia explicita acestei asocieri functoriale este indicata. In contex, locul dublui Drinfeld din teoria grupurilor cuantice este jucat acum de dublul Heisenberg. *Impact:* O parte din rezultatele subsemnatului din aceste lucrari au fost *prezentate* in 1998 de Ross Street la *"Seminarul Australian de Algebra"* (Sydney). Articolul [R4] (reps. [R5]) are 11 (resp. 7) citari iar toate articolele mele din aceasta directie au peste 50 de citari.

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[R6] Bialgebroids, x-bialgebras and duality, J. Algebra, 251(2002), 279-294, (cu T. Brzezinski).

**Bialgebroizi si grupoizi cuantici:** Necesitatea de a generaliza conceptul de bialgebra peste o ‚baza' necomutativa a fost presanta din cel putin 4 directii diferite ale matematicii: topologie algebrica (Ravanel a definit pentru prima data concepul de ‚bialgebroid' - peste o baza comutativa insa), algebra necomutativa abstracta (Takeuchi definise anterior conceptul de x-bialgebra pentru clasificarea unor anumite tipuri de algebre asociative), geometrie diferentiala (geometrie Poisson si geometrie diferentiala necomutativa - unde s-au definit, independent si cu definitii diferite, la inceputul anilor 90 de cate Maltsiniotis, Lu si respectiv Xu) si teoria subfactorilor in algebre de operatori (lucrarile lui Kadison, K. Szlachanyi). In lucrarea [R6] am demonstrat ca "toate" notiunile de bialgebroizi (sau grupoizi cuantici) definite distinct pana atunci sunt concepte echivalente intre ele, punand ordine in 'haosul' definitiilor (unele complet diferite) de pana atunci. Una dintre mizele principale ale acestei directii care s-a dezvoltat foarte mult dupa anii 2000, era aceea de a introduce un concept pur algebric, care sa generalizeze grupoizii din topologie/geometrie, asa cum algebrele Hopf generalizeaza grupurile (din punctul de vedere al grupoizilor un grup este doar un grupoid trivial, i.e. peste o 'baza' singleton). Mai mult, am construit o noua familie de exemple de astfel de obiecte

(extem de tehnice prin definitia lor) care se asociaza oricarei algebre comutative cuantic. *Impact* : Articolul [R6] are 58 de citari.

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[R7] The factorization problem and the smash biproduct of algebras and coalgebras, *Algebras and Representation Theory*, 3(2000), 19-42 (cu S. Caenepeel, Bogdan Ion si S. Zhu)

[R8] Bicrossed product for finite groups, *Algebras and Representation Theory*, 12(2009), 481-488 (cu A.L. Agore, A. Chirvasitu si Bogdan Ion.)

[R9] Classifying complements for groups. Applications, *Annales Institut Fourier*, 65(2015), 1349 - 1365 (cu A.L. Agore)

**Teoria grupurilor: doua probleme celebre.** Duala faimoasei probleme a extinderilor a lui Holder, *problema de factorizare* a fost formulata la nivel de grupuri de Ore in 1937 dar originea ei coboara la lucrarile lui Maillet si Minkowski din 1900. Ea are un enunt remarcabil de simplu -- formulat intr-un limbaj general (nu neaparat pentru grupuri) se enunta astfel: *Daca A si B sunt doua obiecte matematice fixate (grupuri, algebre, grupuri/algebre Lie, etc) descrieti si clasificati toate obiectele X care ‚factorizeaza' prin A si B* (i.e. X este un ‚produs' al obiectelor A si B si acestea, ca subobiecte, au ‚intersectie minimala' in X); ce inseamna ‚produs' si ‚intersectie minimla' depinde de categoria obiectelor cu care lucram. De exemplu, pentru grupuri asta inseamna X = AB si 1 este sigurul element comun in A si B. In [R7] am formulat si abordat problema de factorizare pentru algebre asociative, coalgebre si bialgebre. In articolul [42] am reluat problema doar pentru algebre Hopf (introducerea articolului explica detaliat istoricul problemei si metoda de abordare) si, desi publicat in 2014, articolul are deja 9 citari in strainatate.
La nivel de grupuri, primul laureat Fields, J. Douglas a abordat problema (a fost insa foarte departe de solutie) in cazul in care A si B sunt doua grupuri ciclice finite careia i-a dedicat 4 articole (27 de teoreme, niciuna demonstrata!) in revista *Proc. Nat. Acad. Sci*. U. S. A. 37 (1951), 604–610, 677–691, 749–760, 808–813. Chiar si in acest caz, problema s-a dovedit a fi una extrem de dificila si este inca deschisa, desi ulterior i s-a dedicat numeroase articole. In [R8] am inchis si rezolvat complet problema in cazul special in care unul din grupuri are ordin prim: am aratat ca orice grup care factorizeaza printr-un grup ciclic finit si un grup de ordin prim este izomorf cu un produs semidirect de grupuri de acelasi ordin, i.e. le cunoastem pe toate. De semnalat ca pentru demostrarea acestei teoreme am folosit un rezultat foarte puternic al lui Frobenius din teoria caracterelor. In rest, pentru grupuri ciclice finite arbitrare, problema ramane inca deschisa si este foarte grea (cel mai bun rezultat in acest caz apartinind lui Ito care spune ca grupurile in cauza trebuie sa fie metabeliene) fiind la intersectia dintre teoria grupurilor, combinatorica si teoria numerelor.
*Clasificarea si numarul tuturor grupurilor de ordin fixat (finit)* este una din cele mai vechi probleme in algebra: a fost initiata de Cayley in 1854 care a clasificat toate grupurile cu cel mult 7 elemente. Fie g(n) = numarul claselor de isomorfism de grupuri de ordin n. Calculul (sau aproximarea) acestui numar celebru este o problema care a revenit mereu si mereu in atentie: in acest moment se cunoaste g(n) pentru orice n < 2048 si a fost finalizata in 2008 de Conway, Dietrich si O'Brien. Daca n este putere de numar prim, atunci g (p^m) este cunoscut pana la m = 7 si a fost demostrat in 2005 de O'Brien si Vaughan-Lee (pana la m < 5 fusese facut de Holder in 1896 – i.e. progresul la solutionarea problemei este extrem de lent). In articolul [R9] am indicat o ‚formula' combinatorial-teoretica a lui g(n): mai precis am demonstrat ca formula pentru g(n) se obtine doar din factorizarea grupului simetric S_n = S_{n-1} C_n, unde C_n este grupul ciclic cu n = elemente. Acestei factorizari, i se asociaza o

‚pereche potrivata' (matched pair) de actiuni (fiecare din grupurile C_n si S_{n-1} actioneaza canonic pe celalalt), descrise explicit intr-un mod neasteptat de simplu. Din aceste actiuni putem deduce, ca si corolar, formula teoretica a lui g(n) folosind rezultatele teoretice obtinute in prima parte a articolului unde raspundem in trei pasi la *‚bicrossed descent problem'* (sau problema *clasificarii complementilor*) pentru grupuri. Introdusa la nivel de algebre Hopf si algebre Lie in [40], problema clasificarii complementilor formulata pentru grupuri, are la rindul ei un enunt elementar si poate fi privita ca reciproca problemei factorizarii a lui Ore. Ea este: *Fie A<G un subgrup al unui grup G. Descrieti si clasificati toate subgrupurile H ale lui G a.i. G factorizeaza prin A si H.* Avind ca sursa de inspiratie teoria descentului clasic am dat solutia completa la problema prin contructia unui obiect de tip combinatorial-coolomogic care este responsabil de raspuns. Recent am rezolvat aceiasi problema la nivel de algebre Poisson in articolul [R11] de mai jos. *Impact* : Articolul [R7] (resp. [R8]) are 48 (resp. 12) de citari.

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[R10] Extending structures for Lie algebras, *Monatshefte fur Mathematik*, 174(2014), 169-193 (cu A.L.Agore)

[R11] Jacobi and Poisson algebras, 40 pg. in press in *J. Noncommutative Geometry*, On-line first: http://www.ems-ph.org/journals/forthcoming.php?jrn=jncg (cu A.L. Agore)

**Algebre Lie, algebre Poisson:** Ca si grupurile, algebrele Lie (sau generalizari necomutative ale lor, i.e. algebre Leibniz) sunt intim legate de algebre Hopf prin functorul canonic de scufundare. Algebrele Poisson sunt contrapartea ‚diferentiala' a algebrelor Hopf si modeleaza varietatile Poisson (o varietate este Poisson daca si numai daca ‚algebra de functii' pe ea are o structura de algebra Poisson). Ele insa sunt si celalalt ‚pod' spre grupuri cuantice. Dincolo de interesul in sine, pentru un studiul pur algebric al lor, algebrele Lie/Poisson sunt obiecte fundamentele de studiu in directii care stau la granita dintre diferite domenii ale matematicii: geometrie diferentiala, grupuri Lie si teoria reprezentarii, mecanica Hamiltoniana, geometrie algebrica/diferentiala necomutativa, sisteme (super)integrabile, vertex operator algebras, etc. In aceasta directie sunt interesat de teoreme de structura si clasificare din punct de vedere pur algebric. Dintre articolele recente dedicate acestei directii [R10] si [R11] sunt cele mai reprezentative: in ele, ca problema subsecventa problemei de clasificare a obiectelor ‚finite' de dimensiune data, abordez urmatoarea problema numita ‚problema prelungirii stucturilor', care la nivel de algebre Lie (resp. Poisson/Iacobi, etc) are urmatorul enunt: *daca L este o algebra Lie (resp. Poisson/Iacobi, etc) data , descrieti si clasificati toate algebrele Lie care contin L ca subalgebra de codimensiune data.* Problema este una foarte grea: in particular, problema extinderilor (intens studiata si la nivel de algebre Lie) este caz special de aceasta. Am furnizat raspunsul teoretic la problema prin constructia unui obiect de tip coomologie neabeliana responsabil de clasificare. Tema de cercetare este una foarte vasta, suntem abia la incepturile ei, dar promisiunile pentru obtinerea unor rezultate de impact sunt surprizatoare. Fartea finala al articolului [R11] solutioneaza si ‚bicrossed descent problem' la nivel de algebre Poisson. Pe drum, am introdus concepte si metode noi de lucru care s-au dovedit a avea aplicatii deosebite, ducind-ne anul acesta la o teorie de tip Galois pentru algebre Lie (articolul [58]) si una care este in lucru pentru algebre Poisson. Detalii pe larg sunt in introducerea si continutul articolelor respective. Intuiesc ca in timp articolele din directia aceasta vor fi bine citate: desi foarte recente, articolele au deja fiecare cate doua citari in strainatate.

**Anexa: Lista de citari - Gigel Militaru**

Sunt indicate numai citarile din articole, monografii sau teze de doctorat publicate in strainatate. In 1 septembrie 2015 lucrarile mele au peste **565 de citari** (fara autocitari) fiind citat de 201 de matematicieni (cf. MathScinet)

- *Frobenius and separable functors for generalized module categories and nonlinear equation*, Springer Lecture Notes in Mathematics, 1787 (2002), 354 pg (with S. Caenepeel and S. Zhu).

**Este citata in:**

1) S. Caenepeel, L. Kadison - *Are biseparable extensions Frobenius?* K-Theory 24(2001), 361-383.

2) Abuhlail, J. Y. - *Dualitatssatze fur Hopf-Algebren uber Ringe",* Teza de doctorat, Univ. Dusseldorf, 2001.

3) T. Brzezinski, *The structure of corings with a group-like elemen*, in *Noncommutative geometry and quantum groups (Warsaw, 2001)*, Banach Center Publ., 61(2003), 21--35, *Polish Acad. Sci., Warsaw*.

4) Zhu, Bin, *Relative approximations and Maschke functors*. Bull. Austral. Math. Soc., 67 ( 2003), 219--224.

5) Abuhlail, J. Y. *Rational modules for corings*. Comm. Algebra 3 1 ( 2003), n o. 12, 5793--5840.

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