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Multiple bifurcations in a harmonic oscillator with delayed feedback

Cao, Jianzhi; Yuan, Rong. **Neurocomputing** 122 : 172-180. Elsevier. (Dec 25, 2013)

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Abstract (summary) Translate

In this paper, we consider a harmonic oscillator with delayed feedback. By studying the distribution of the eigenvalues of the characteristic equation, we drive the critical values where Bogdanov-Takens (B-T) bifurcation and zero-Hopf bifurcation occur. The versal unfoldings of the normal forms at the singularity of B-T and a pure imaginary and a zero eigenvalue singularity are given, respectively. Some numerical simulations verify the theoretical results. © 2013.

Indexing (details) Cite

SU, SUBT

Subject
Hopf bifurcation (major);
Eigenvalues and eigenfunctions;
Oscillators (mechanical)

CC

Classification
601.1: Mechanical Devices;
921: Applied Mathematics;
921.1: Algebra;
931: Applied Physics Generally

IF

Identifier (keyword)
Bogdanov-Takens bifurcations, Characteristic equation, Critical value, Delayed, Delayed feedback, Harmonic oscillators, Multiple bifurcations, Zero-Hopf bifurcations, Bogdanov-Takens bifurcation, Harmonic oscillator, Zero-Hopf bifurcation

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| Compendex classification | CMDXCC | cmdxcc(applied mathematics) | Displays in Classification field. Not available in pre-1970 data. |
| CODEN | CODEN | coden(nrcge) | |
| Conference | CF | cf("2011 aaai workshop") | Includes conference name. |
| Conference event start date | ESDT, CDT | esdt(2011-08-07) | |
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| Document status | DSTAT | dstat(new) | |
| Document title | TI | ti(harmonic oscillator) | Includes Title, Alternate Title, Original Title, and Subtitle but not Publication Title (PUB). |
| Title only | TIO | tio(Wasseranalytik) | Searches only the Title, not Subtitle or Alternate Title. |
| Alternate title | OTI | oti(DATENVERARBEITUNG) | Includes Alternate title, Subtitle, and Original-language title if available. |
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| ISBN | ISBN | isbn(0030099927) OR isbn(9780030099922) | Also searchable via the Look Up Citation tool. Not available in pre-1970 data. |
| Identifier (keyword) | IF | if("characteristic equation") | Not available in pre-1970 data. |
| ISSN | ISSN | issn(0925-2312) issn(09252312) | Also searchable via the Look Up Citation tool. Not available in pre-1970 data. |

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| Issue | ISS | iss(12) | |
| Language | LA | la(french) | The language in which the document was originally published. |
| Language of abstract | SL | sl(english) | |
| Major subject | MJSUB | mjsub(hopf bifurcation) | |
| Pagination | PG | pg(172-180) | The start page is searchable on the Look Up Citation page. |
| Patent information | PAT | pat("dow chemical") | Patent information is only available between the years 1906- 1976. |
| Inventor | INV | inv(takagi, h) | |
| Patent application date | PAD | pad(1965-09-28) | |
| Patent assignee | AP | ap("sakai chemical industry co") | |
| Patent publication date | PDA | pda(19690617) | |
| Patent publication number | PN | pn(3450585) | |
| Patent publication country | PC | pc(gb) pc(us) | |
| Publication date | PD | pd(20081001) pd(>=20110415) pd(20100101-20101231) | Date range searching is supported. |
| Publication title ¹ | PUB | pub(neurocomputing) | Publication title including full and abbreviated form of Journal name. |
| Publication year | YR | yr(2007) yr(2011-2012) yr(<2009) | Date range searching is supported. |
| Publisher | PB | pb("taylor and francis") | |
| Publisher city | PBCITY | pbcity(london) pbcity(abingdon oxfordshire) | |
| Place of publication | CP | cp(china) | Country of publication. |
| Source information | SRC | src("radiation physics and chemistry") AND yr(2011) | |
| Subject ¹ | SU | su(oscillators (mechanical)) | Includes Subject and Identifier (keyword). |

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